# Knowledge Organiser

Year 11

Cycle 3

Name:



# Year 11 Cycle 3 Knowledge Organiser Contents Page

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# Using your Knowledge Organiser for homework

- Your Knowledge Organiser contains the essential knowledge that every student must know.
- Regular use of the Knowledge Organiser helps you to recap, revise and revisit what you have learnt in lessons.
- The aim is to help remember this knowledge in the long term.
- You will use the Knowledge Organiser to help learn during homework.
- You will be assessed on the knowledge from your Knowledge Organiser; the more you revisit information the more likely it will be remembered for lessons, assessments and exams.
- For each homework you will be asked to look at a particular section of your Knowledge Organiser.
- Make sure you follow the homework timetable below so that you do the right homework for the right subjects each day.
- Each day (Monday to Friday) you will study 2 subjects for 30 minutes each. You are also expected to spend 30 minutes per day reading.
- All Knowledge Organiser homework is completed in your blue Knowledge Workbooks
- All Maths homework is completed on SPARX and must be 100% completed each week.

# Homework Timetable Year 11

	Monday	Tuesday	Wednesday	Thursday	Friday	
Subject 1	Science	Maths	Geog/History	Option Block F	Maths	
Subject 2	English	Option Block E	English	Science	Option Block G	

# How to use your Knowledge Organiser

In your blue knowledge book you will always write the date, subject heading and ensure that they are underlined with a ruler.

# Style 1: The Cover - Write - Check method







- 1. Study the relevant section of your Knowledge Organiser for several minutes.
- 2. Cover the Knowledge Organiser.
- 3. In your blue book, write out what you can remember.
- 4. Check the Knowledge Organiser to see if you got it right.
- 5. Correct any mistakes in purple pen.
- 6. Repeat the process even if you got it 100% correct.
- 7. Complete sections that you have previously studied using the same process.

# Style 2: Free recall

- 1. Pick a section of the Knowledge Organiser you have studied recently.
- 2. Without looking at the Knowledge Organiser write down everything you can remember about the topic.
- 3. Check the Knowledge Organiser to see how much you got right.
- 4. Correct any mistakes and add any missing parts in purple pen.

# **Style 3: Elaboration**

- 1. Once you have completed the Cover Write Check method, add any additional details you can to your notes.
- 2. Remember your Knowledge Organiser only contains the core knowledge, there is much to learn beyond it so practise adding more detail when you can.

Line	Line is the path left by a moving point. A line can be horizontal, diagonal or curved and can also change length.
Shape	A shape is an area enclosed by a line. Shapes can be geometric or irregular.
Form	Form is a three dimensional shape, such as a cube, sphere or cone.
Tone	This refers to the lightness or darkness of something. This could be a shade, or how dark or light a colour appears.
Texture	This is to do with the surface quality of something. There are two types of texture: Actual texture really exists, so you can feel it or touch it; Visual texture is created using marks to represent actual texture.
Pattern	A design that is created by repeating lines, shapes, tones or colours.
Colour	Red, yellow and blue are primary colours, which means they can't be mixed using any other colours.

# B. Key Knowledge 1: AO1-TICK OFF ONCE DONE

- ☐ I have created a double page mind map and mood board about my theme
- I have completed two critical studies with in depth annotation using my booklet for guidance
- I have completed some further research around my theme
- I have added in further critical studies as my ideas have developed and changed

# AO2 - TICK OFF ONCE DONE

- I have completed one type of collage work
- I have experimented with drawing in monoprint
- I have experimented with colour
- I have experimented with printmaking, textiles or 3D work
- I have refined two of the above with a further experiment

## AO3 - TICK OFF ONCE DONE

- ☐ I have completed a photoshoot
- I have drawn from life
- ☐ I have drawn from found images and my own photos
- ☐ I have drawn in pencil—tonal, Pen—mark making and tried continual and blind drawing.

# AO4 - TICK OFF ONCE DONE

- ☐ I have written a statement of intent
- ☐ I have sketched and annotated thumbnails of final outcome ideas.
- ☐ I have refined work and practiced elements of my final piece
- I have a final outcome that is meaningful, clearly relates to my developments and shows my best skills.

ART & DESIGN Project - YEAR 11. Groups, types and places. Threshold Concept -#2 Art communicates, in every sense. #5 Artists play - with ideas, materials and failures #6 Art engages heads, hands and heart

# C. Expert Modelling:



Kurt Jackson



Katie Scott

David Hockney







Michael Wolf

Annette Messager

# What Visual Elements can you see in this work?

# IDENTIFYING SUCCESSES IN YOUR WORK

- Identify three formal elements in your work and explain why they are important
- Explain how you will refine a process further to develop your practical work
- Identify a gap or weakness you would like to improve.

# D. Wider thinking, reading and doing:

- Create a conceptual page
- Do a large abstract experimental piece
- Contact an artist or organisation

Knowledge organiser - Enterprise -Component 2 - Planning for and pitching an enterprise activity.

Have you ever thought about running your own business? Do you believe you would be up for the challenge? In this component you will come up with an idea for your own enterprise activity.

# Learning Aim A

# Generating ideas

Ideas come from risks that entrepreneurs are willing to take. These can come from

- Solving problems
- Thought showers
- Importing an idea from abroad
- Professional skills
- Experiences

# Demographic

This relates to the way that a population, market, can be divided up, including age, gender, ethnic background or educational level.

# Target market

The section of the market the enterprise intends to supply.

# Promotional material

Flyers and brochures that help to increase sales and gain business

# What is an entrepreneur?

A person who is prepared to take a risk to set up a new enterprise in order to make a profit.

# Considerations when choosing an idea

- Financial forecast
- Methods of communication and promotion
- Potential customers
- Skills of people in the group

# Resources available

- Costing and pricing

# 

SCAN ME

# Market segment

A section of the market with common characteristics.

# Market segmentation

This allows to enterprise to tailor (match) its goods/service and communications to a specific segment of the market, such as:

- Demographic (age, culture)
- Geographic (location)
- · Psychographic (personality, attitude)
- Behavioural (interests, needs)

# Revenue

The money coming into the enterprise (income)

Goods - Physical products that can be purchased Services - Acts or tasks that can be purchased

# **Innovation**

When a new product or process is introduced to the market.





# Communication

Enterprises need to communicate with customers to:

- Keep them informed
- Try to increase sales.



# Point of Sales (PoS)

Sales promotions found near to /next to the checkout.

# Skill

The ability to perform an action well.

# Risk assessment

Identifying potential risks to a business. Considering the likelihood of them turning into problems. Judging whether or not the benefits of something outweigh the risks.

# Skills audit

The process of identifying what skills are needed and matching them to current skills to identify training and development needs.

# Physical Resources

Financial Resources

Sources of

finance

costs

costs

Production

• Start-up costs

Running/fixed

costs/cost of

sales/ variable

- Location
- Materials
- Equipment
- Fixtures & fittings
- Stock
- TT

# Wages

Calculated hourly to pay for work that has been done.

# Salary

Fixed annual payment divided into 12 equal monthly payments.

# Risk averse

Avoiding or being unwilling to take risks.

Break Even

# Break even

The point where income and expenditure (total money spent) are equal.

**Fixed Costs** 

# Risks faced by entrepreneurs

- Lack of entrepreneurial skill
- Competitors actions
- Unexpected costs of production
- Sourcing raw materials
- Quality control issues
- Lack of customer interest

# Contingency plan

Identify potential risks and possible procedures.

Knowledge organiser - Enterprise -Component 2 - Planning for and pitching an enterprise activity.

Learning Aim B

# Pitch

A presentation by one or more people (entrepreneurs) to an investor or group of investors about the nature and details of an idea or start-up. Aimed at persuading a person or business to invest in the enterprise, or loan capital to start up the enterprise.

If you have an idea for a business or product you are likely to want to sell (pitch) that idea to other people so they will invest in your business or buy your product.

· Overview of the idea

Aims

# Purpose of a pitch

To provide a potential investor or lender with information about the enterprise and convince them that it will be a success.

# **Techniques**

- Presentations
- Speech 2-10 minutes
- **Images**
- Facts
- Demonstrations
- Q&A

# Elevator pitch

A short description of an enterprise idea, product that conveys the concept in an exciting way that can be understood in a short space of time.

Comes from the idea that the pitch should be short enough to be delivered in the time it takes an elevator (lift) to get from the bottom floor to the top.

# Persuasive pitch

# Tell a story

Stories grab people's attention and allow them to put ideas into context.

Rhetorical questions

These make the audience think

attitudes, opinions and feelings.

and reflect on their own

# Focus on the problem being solved

understand the features of your product or service and also how they benefit them.





Your audience must

# Repetition

key phrases such as your strap line or the main reason your idea is unique.

Keep your pitch memorable, repeat

The product or service • Competition •

Professionalism - You must act in a way that is appropriate for a professional in a certain occupation, e.g. a doctor must be courteous and respectful to patients.

Delivering a professional pitch

**Dress** - it is traditional to wear a suit although some companies are more relaxed.

Contents of a pitch

Target

market

Greetings - most cultures greet with a hand shake and a "Hello" or "Good morning/afternoon".

Positive attitude - positivity is infectious, if you are enthusiastic, happy and smile then your audience will be positive too.

Rehearsing the pitch - being fully prepared is important, nerves are natural but rehearsing will build your confidence.

# Use the rule of 3

People find it easier to remember things in threes. Therefore, when communicating the benefits of your idea, the reasons why people should invest, or the things that make your idea unique, always have three.

# Visual aids (presentation, text & graphics, handouts)

Allows the presenter to communicate far more information rather than just talking.

# **Business Plan**

Formal document used to outline details of a business start-up.

# Professionalism

The competency, skill and behaviours expected of someone who is a professional.

# The needs of the audience

Engaging and involving your audience.

- Closed questions
- Ask the audience to imagine something
- Use humour
- Give a task/exercise to do

# Communication skills

- Tone, pace and volume
- Body language and gestures
- Eye contact

Methods of communication

Resources

Finances

Anticipating questions that could be asked will help you answer them. Listen to the question carefully Use business terminology in the answer.

Responding to questions









# **Knowledge Organiser: Networks**

KEY VOCABULARY					
Stand Alone	A single machine, not connected to another				
Network	A collection of machines which can communicate with one another				
Transparent	The end-user has no need to know the specifics of a network's infrastructure				
Node	A device on a network (PC or other device)				
Link	The connections between nodes				
LAN	Local Area Network (Single location)				
WAN	Wide Area Network (Multiple connected locations)				
VPN	Virtual Private Network				
UTP	Unshielded Twisted Pair – a type of cable				
Client	The user machines on a network				
Server	The central 'controller' machine on a network, including main data storage				
P2P	Peer-2-Peer. A network without a server.				
WAP	Wireless Access Point				
NIC	Network Interface Controller				
Router	Controls the sending of data around a network				
Hub	A central connection for a small network, which broadcasts all data to all clients				
Internet	A worldwide collection of networks				

# **Tethering**

- · Tethering means linking devices using Bluetooth
  - · This creates a localised personal area network
  - This may enable one device to use another's 3G Internet connection by creating a personal hotspot



# WHAT IS A NETWORK?

A network is where two or more computers are joined together to share files and resources.

There are many reasons to create networks of computers, and increasingly few reasons not to.



Advantages	Disadvantages
, and the second	C .
Communication between users	Higher cost than single machines
Sharing of files	Requires additional hardware
Sharing of peripheral devices such as printers and	Requires administration
scanners	Security risks—Open to attacks
You are able to monitoring user activity	System failure could lead to downtime
Access control or other security features	
Centralised administration of machines	
Multiple work stations available for users	
Possible to distribute workload for large tasks	

# Local Area Network (LAN)

A LAN operates on a single site such as a school or small business using their own cabling systems

# 

# Wide Area Network (WAN)

- Any network in which the computers communicate using resources supplied by a "third party carrier" such as British Telecom, is a Wide Area Network
- •Often under collective or distributed ownership
- •A WAN uses cables, telephone lines, satellites and radio waves to connect, usually spread over a wide geographical area

# PERSONAL AREA NETWORK (PAN)

- Personal Area Network centred around a single user
- Bluetooth used to connect devices
- •Tethering devices creating your own personal hotspot with your mobile phone, to connect other devices such as tablets

## Benefits Risks Cables can be hazardous and Faster connection unsightly Higher bandwidth Wired Not all devices can connect via Greater security cable Can be expensive to set up No wires Connection can be slower Easy to connect Subject to interference from Wireless new devices walls, objects and other Can be used freely electronic devices within range Less secure

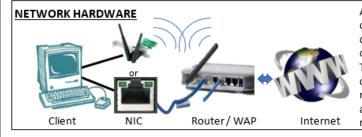
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# GCSE Computer Science : Knowledge Organiser: Networks

# Network topology

Bus		work where all nodes are connected to a single cable (backbone).	Easiest option for connecting nodes with shared	Difficult to fault test because who network crashes when there are errors  Additional devices slow down the network
Star	Terminal	switch. A central machine acts as <b>server</b> whilst the outer nodes are <b>clients</b> .	Easy to add more machines to the network  If 1 machine fails, the others are unaffected	Potentially higher set up costs, especially in server and switch set ups.  Central server determines the speed of the network and the number of possible nodes  If the server fails then the network fails

KEY VOCABULARY				
WAN Wide Area Network				
VPN	Virtual Private Network			
Client	The user machines on a network			
Server	The central 'controller' machine on a network, including main data storage			
Internet	A worldwide network of networks			
DNS	Domain Name Server			
Hosting	Storing a file on a web-server for access via the internet			
Cloud	A service which is stored remotely			
TCP/IP	Transmission Control Protocol / Internet Protocol.  These are the standards that allows network nodes to communicate with one another on the internet			
www	World Wide Web - Pages of content			
email	Electronic mail, sent through the internet			
URL	URL Unique Resource Location			



All clients need an NIC to connect to a ROUTER. This could be a wireless adapter or a network card.
The Router in this simple connection can host multiple clients, but more advanced hardware is needed for bigger networks





# Router

· Sends data packets on their way in the best direction



# Switch

 Smart multi-plug adaptor that only sends packets to the intended recipient, using their destination MAC address

# Wireless networks come with their own set of risks:

- •Theft of bandwidth from neighbouring users within range
- •Compromised confidentiality without adequate encryption
- ·Easier to intercept data or 'hack'

Sender's

IP address

Recipient's

IP address

Protocol

used

# **Knowledge Organiser: Networks**

•When you make a telephone call, a dedicated connection is set up between you and the person you are calling for the duration of the call

•With circuit switching, we are building a connection between different locations so that we can then send data over those lines.

Packet Switching

The method in which packets are sent across a network from one router to the next is called packet switching. A file is split down into equal packets. It uses the destination IP address to find the recipient's location. The chosen route that the packets take is dependent on the traffic conditions, so it is unlikely that all packets will follow the same route and so they may arrive in an incorrect sequence. This is another reason why the control

Packet

sequence number

<u>WHY LAYER?</u> Layering allows problems to be broken down into small chunks, and then smaller solutions created to specific parts of the problem. These small parts interact in an agreed manner, allowing the solution to be built by different teams or companies.

Payload (the actual data)

Layering is not unique to computing. In the car industry, a Ford engine might be used with a Jaguar gearbox in a Mazda car. By separating these 'layers', but agreeing on the interface between the layers, each company is free to develop their layer as they see fit, without affecting the other layers. It is also possible to swap one layer out, and replace it with another one – such as swapping an engine for a more powerful one.

This *interoperability* is important as it allows data (in computing) to be passed from one layer to the next. Interoperability The ability for different systems and software to communicate, exchange data and use the information

In networking, <u>layering</u> means to break up the sending of messages into separate components and activities. Each component handles a different part of the communication. This can be referred to as the Transmission Control Protocol/Internet Protocol - TCP/IP - model.

Layering enables standards to be put in place and simply adapted as new hardware and software is developed.

TCP/IP Layering Model

# LAYER 1: Application

This layer ensures data is produced in a form that is acceptable to the application that will use it, such as web-browsers or email clients. This is where IMAP or HTML protocols would be used.

# LAYER 2: Transport

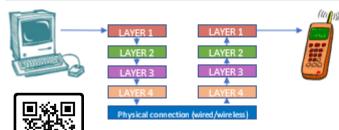
This layer establishes the connection across the network. The transmitting device agrees with the receiving device the speed or data transfer, the size and number of packets and any error checking to be used. This layer uses TCP protocols

## LAYER 3: Internet

This layer is concerned with transmitting the data across different networks. It identifies the destination and establishes the path the data will take between nodes. It uses IP protocols

## LAYER 4: Network

This layer deals with the physical transmitting of the data. It converts the data into binary electronic signal that can be understood by the network hardware. It uses protocols such as Ethernet or 802.11 (wireless) so the signal is hardware independent and can use any available compliant physical medium, such as UTP or fibre optic wire.



Data transfer occurs by breaking the file into small packets, adding each layer to the packet in order at the sending device, then decoding in reverse order at the receiving device before rebuilding the file.

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Checksum

		KEY VOCABULARY				
Encryption is taking a message and changing the letters in such a way that it is not readable. The correct recipient knows how to unso the message and can read the text. Modern encryption is 128bit and secure against brute force attacks  PUBLIC KEY ENCRYPTION Public Key Encryption is a method of securely sending data over the internet. The recipient's computer uses gorithm to produce 2 linked keys: a public key and a private key.						
Encryption  Scan Me	Alice (the sender) requests Bob's (the recipient) public key. This is shared.  Alice uses Bob's public key to <i>encrypt</i> the message she wishes to send  The encrypted document is sent over the internet – it is secure.  When Bob receives the encrypted document he combines his public key with the secret private key. This allows the message to be decrypted and turned back into plain toyt.					
Protocol	The rules and standards that are agre	eed in order to make it possible for different devices to talk to one another				
IP Address	Each node on a network is given a un tion	nique 32 bit address (4x8bits) for example 192.168.0.1 There are 4 billion possible combinations. Geographical loca-				
DHCP	Dynamic Host Configuration Protocol	- this protocol allows the network server to control the allocation of IP addresses				
MAC Address	Media Access Control Unique addresses hard-coded into the Hex (eg 01-23-45-67-89-ab-cd-ef) MAC Address links to actual individua	e network interface controller. Gives the manufacturer, NIC type and unique identifying number. 48 bits displayed as				
TCP/IP	Transmission Control Protocol / Internet Protocol	A set of protocols that governs the transfer of data over a network				
HTTP	Hyper Text Transfer Protocol	Standards for writing webpages to display content for display				
HTTPS	Hyper Text Transfer Protocol Secure	Client-server protocol for requesting (client) and delivering (server) resources, such as HTML, securely				
FTP	File Transfer Protocol  Used to directly send files from one node to another over the internet. Commonly used for uploading files to webservers					
POP	Post Office Protocol  Used by email clients to download email from the remote email server and save it onto the users computer. More or less redundant now, and has been replaced by IMAP					
IMAP	Internet Message Access Protocol An alternative to POP, allowing more control such as the complete control of remote mailboxes					
SMTP	Simple Mail Transfer Protocol	An old standard for transmission of email. SMTP can only be used to <i>push</i> mail to client machines, whilst both POP and IMAP ae used by clients to <i>retrieve</i> mail.				





	Week 1	Week 2	Week 3	Week 4	Week 5
	Basic Dance Actions	Higher Level Chorography	Performance Skills	Endurance is the ability of a	State of the state
			<b>Posture:</b> The position in which	muscle or group of muscles to	Stage positions
	Elevation	Motif	someone holds their body	perform work for a long time.	
	Jumping from the floor	A collection of movements	when standing or sitting.	With endurance, a muscle is	Upstage Upstage Upstage Right Center Left
	either on your own or with	which link directly to your	Importance of Posture in	able to resist fatigue when a	Wing Center CHANTER Center Wing
	the aid of other people.	stimulus.	Dance, your feet should be	movement is repeated over	Right Left  Downstage Downstage Downstage
	Lift	Development	shoulder width apart, knees	and over or when a muscle is	Right Center Left
	Lifting another dancer off	Changing your motif using	slightly bent, pelvis over your	held in a static contraction.	Orchestra Pit or Apron
	the floor.	levels, actions, travelling	legs. Torso, which includes the		Audience
	Leap	and dynamics.	shoulders, should be over your	Stamina The energy and	radicace
	Jumping forward, from one	Fragmentation	pelvis. Head level and over	strength needed to perform	
	leg to the other with	Changing the order of the	your torso, with eyes forward.	physical activities at your best	
	straight legs.	movements within your	Alimonant	for an extended period of	Audience Did you know stages weren't
E 3	Slide	motif.	Alignment  Body Alignment for Densers	time.	always flat?  They use to be at an incline.
CYCLE	Sliding either on your feet	Retrograde	Body Alignment for Dancers.	Strength. Ballet dancers must	It's called
$\sim$	or your body, to travel	Perform the chorography	Graceful posture is the key to beautiful dance movements.	be strong to perform various dance manoeuvres. Core	Downstage because you could fall down!
I	whilst being in contact with	backwards.	Proper body alignment allows	strength is particularly	That's also why dancer
CE	the floor.	Spatial Awareness	the dancer to move freely and	important for a ballet dancer,	Upstage 00 "turnout" their legs
DANCE	Roll	Knowing where the body	lessens the risk of injury. Poor	as a strong core promotes	It helps them move
<b>D</b> /	Rolling over our body to	parts are in space in relation	body alignment puts excess	better balance, helps a dancer	floor quickly and with
11	travel on the floor.	to the rest of the body.	strain on muscles and joints,	stay properly aligned and	© Ballet For Me And You
<u>ک</u>	Isolation	Co-ordination	while proper alignment helps	improves stability. Strong	
YEAR	Only moving a single body	The ability to move two or	to strengthen the dancer's	muscles in the core also	
_	part whilst keeping the rest	more body parts under	muscles.	decrease the risk of injury.	
	still e.g. head roll.	control, smoothly and		, ,	Staging Types: Proscenium
	Characterisation	efficiently.	Muscle Memory	Flexibility training improves	Arch or End on.
	Creating a character	Quality	The dance eventually become	a dancer's posture not only	Audience at the front of the
	through your movement	Different types of energy;	nearly automatic, as if you	during dance lessons but in life	stage area.
	and dynamic choices.	sustained, percussive (unconnected), swinging,	were simply breathing. This is	as a whole. It helps a dancer	
	Parallel		called muscle memory.	attempt more intricate twists	
	Standing with your feet	suspended, collapsed, and vibratory (Shake).	Muscle memory is essentially a	and turns and prevents the	Ante- proscenium
	directly under your hips,	Suspension	brain-power saver– when you	occurrence of injury. This	Proscenium door arch
	with toes facing forwards.	A sustained movement	repeat an action for an	group of activities improve the	
		where there is a delay of	extended period of time your	ability of a joint to move easily	Stage (In back of arch) Apron
		action causing a hanging in	brain eventually knows what	and attain a wider range of	(in back of arch) Apron (in front of arch)
		the air feeling.	to do when you need to do it.	movements.	
		and an recinigi			

	Week 6	Week 7	Week 8	Week 9	Week 10
	Key Features of	Key Features of Jazz	Jazz Timeline 1700s		
	<b>Contemporary</b>		Origin of jazz dance found in	Revision for Knowledge	Key Vocabulary:
			movements of African slaves	Organiser test:	
	Graham	Fosse	1800s		Fosse
	This style looks at	A jazz style which	Minstrel shows toured portraying African Americans in large	Pick three sections you feel	A jazz style which
	contraction and release of	incorporates a lot of limp	troupes	you need revise.	incorporates a lot of limp
	the spine, focusing on how	wrists and	1880s		wrists and
	your body moves on the	contractions, controlling the	Vaudeville shows emerged which	You may choose to look over	contractions, controlling the
	ground and through	movements of your body.	were a series of separate acts in	one week in particular you feel	movements of your body.
	travelling.	Charleston	one show	you don't know as well.	Pas de Bourree
	Cunningham	This is a style of rock 'n roll	1910s		3 steps; behind, side, front.
	This style believes all	jazz – including a lot of fast	The shimmy was invented in	Use the following to support	Alignment
m	movement should	changing in directions,	1917 triggered by a song by	you with your revision:	Body Alignment for Dancers.
	originate from the spine –	jumps and lifts.	Spencer Williams 1920s		Graceful posture is the key
し	including the 5 movements	Hinge	The Charleston was developed by	LOOK	to beautiful dance
CYCLE	of the spine with almost	Knees forward with heels	Kathryn Wilson	COVER	movements. Proper
1	every movement. Moving	off the floor using the	1930s	COVER	body alignment allows
E E	this body part before any	stomach to hold you in a	Bill Robinson developed jazz tap	WRITE	the dancer to move freely
DANCE	other.	straight line.	through the placement of the feet	CHECK	and lessens the risk of
	Musical Theatre	Pas de Bourree	1940s	CITECK	injury. Poor body alignment
11	This is the style most used	3 steps; behind, side, front.	Jack Cole brought jazz to Hollywood movie musicals		puts excess strain on
~	in theatres today, telling a	Pivot Turn	1950s	Draw a picture to represent	muscles and joints, while
YEAR	narrative, performing as	The body rotates without	Jerome Robbins produced West	your chosen word/section.	proper alignment helps to
<b>=</b>	characters and often using	traveling. Supported by one	Side Story boosting jazz		strengthen the dancer's
	the words for	or both feet, which swivel in	popularity	Create flash cards that include	muscles.
	choreography.	place.	1970s	your words/sections and their definitions.	Retrograde
	Horton	Retire	Bob Fosse developed his own	definitions.	Perform the chorography
	This style originates from	Thigh is raised with the	unique jazz style producing many	Put your word/section into a	backwards.
	the hips, using sharp angles	knee bent so the pointed	films <b>1980s</b>	scenario. For example, "I	Elevation
	and strong, straight backs	toes rest beside the	Jazz craze developed from movies	would flex my feet during the	Jumping from the floor
	and legs.	supporting knee.	such as Fame, Flash dance and	style of Jazz".	either on your own or with
			Dirty Dancing	Style of Jazz .	the aid of other people.
			2000s	Create a	Leap
			Commercial jazz developed and	Mind + 100/2002 (Min)	Jumping forward, from one
			films came out such as 'Save the	Map	leg to the other with
			last dance'	30 Apparate	straight legs.
		<u>l</u>	1	<u>l</u>	

Start with Week 1. Each week, complete the next colour block. Write each word out 3 times and each definition once. Write as much of the theme/character information as you can remember. Check it all with a purple pen. Tick what is correct, fix what is wrong.

Coom	nbeshead Academy Ins	oiring Excellence	English Learning Area			Jekyll and Hyde – Robert Louis Stevenson
wk	keyword	definition	example			
	Utterson	The main protagonist.	The story is told through the eyes of Utterson.		Week 1	<ul> <li>Chapter 1: The Story of The Door</li> <li>We learnt that Utterson is a lawyer.</li> <li>Utterson and Enfield pass a strange-</li> </ul>
1st April)	Enfield	Enfield goes for a walk with Utterson every Sunday.	Yet both men look forward to their weekly Sunday walk as if it were the chief jewel of each week. (Chapter 1)			looking door whilst out for a walk.  Enfield tells Utterson about an incident involving a man (Hyde)
(28 <sup>th</sup> March-	Victorian Gentleman	In order to fit this image, there were lots of qualities that a man would have to show.	Pious, honest, honourable, generous.			<ul> <li>trampling on a young girl.</li> <li>Enfield says the man had a key to the door (which leads to Dr Jekyll's laboratory).</li> <li>The man paid the girl's family compensation via money and a</li> </ul>
Week 1 (2	Reputation	The beliefs or opinions that are held about someone or something.	Jekyll has a great reputation.			<ul> <li>cheque, which everyone assumed would be forged. However, the cheque was legitimate.</li> <li>Utterson asks Enfield if he is sure that the man used a key to</li> </ul>
>	Respectability	The quality of being socially acceptable.	Jekyll has a lot of respectability because of his job and personal qualities.			enter the door. Enfield is sure he did.
	Troglodytic	Being characteristic of someone who lived in a cave.	Hyde is described as troglodytic.			Chapter 2: Search for Mr Hyde     Utterson takes the will of his friend Dr Jekyll from his safe. It
	Slatternly	Something/someone that is dirty or untidy.	Some of the shop fronts are described as slatternly.			contains a worrying instruction: in the event of Dr Jekyll's disappearance, all his possessions are to go to Mr Hyde.  • Utterson decides to visit Dr Lanyon, an old friend of his and Dr
8 <sup>th</sup> April)	Metamorphosis	A stark change in physical form.	Jekyll undergoes metamorphosis to become Hyde.			Jekyll's. Lanyon has never heard of Hyde, and not seen Jekyll for ten years because of their differing approaches to
April- 8 <sup>t</sup>	Apothecary	One who prepares/sells drugs for medicinal purposes.	"He was the usual cut-and-dry apothecary"		Week2	scientific work.  • Utterson starts watching the door, and
Week2 (4 <sup>th</sup> A	Pedantic	Someone obsessively concerned with small details.	Enfield describes himself as being pedantic when he tells Utterson the story of the door.			<ul> <li>eventually sees Hyde unlocking it. Utterson is shocked by the sense of evil coming from him.</li> <li>Utterson goes to warn Jekyll against Hyde, but is told by Poole that Jekyll is out and the servants have all been instructed by Jekyll to obey Hyde.</li> <li>Utterson is worried that Hyde may kill Jekyll to benefit from the will.</li> </ul>

Week 3 (25th April-29th April)	Cronies  Abominable  Transcendental  Irrepressible  Physiognomy	A close friend or companion.  Something that causes moral revulsion.  Something that relates to a spiritual realm.  Not able to be controlled or restrained.  The practice of assessing a person's character from their appearance.	Utterson and Enfield could be described as cronies.  Hyde is abominable because everyone who sees him is disgusted by his appearance.  Jekyll practises transcendental medicine- this is why Lanyon does not like it.  Hyde's anger is irrepressible.  Hyde's deformed appearance would be seen as an indicator of his savage personality.	Week 3	with trying to talk about the will.
Week 4 (3 <sup>rd</sup> May-6 <sup>th</sup> May)	Context  Symbolism  Animalistic  Duality  Convention	The circumstances that form the setting for an event or idea.  The use of an image to represent an idea.  To be like an animal/uncivilised  Two contrasting or opposite ideas.  An ingredient of a particular genre.	The period of Victorian London forms part of the context for Jekyll and Hyde.  Doors are used to symbolise the separation of two different worlds.  Hyde can be described as animalistic.  Duality is a key theme in Jekyll and Hyde.  Gloomy weather is a convention of Gothic Literature.	Mook 4	the heady and the nelice contact him

# How to reminder:

Each week, complete the next colour block. Write each word out 3 times and each definition once. Write as much of the theme/character information as you can remember. Check it all with a purple pen. Tick what is correct, fix what is wrong.

	Analysis	Detailed examination of the elements of something.	AO2 refers to your ability to perform language analysis.			<ul> <li>Chapter 5: Incident of the Letter</li> <li>Utterson goes to Jekyll's house and finds him 'looking deadly sick'. He asks whether he is hiding Hyde.</li> <li>Jekyll assures him he will never see or hear of Hyde again.</li> </ul>		
h May-13 <sup>th</sup> May)	Savage	Fierce, violent and uncontrolled.	Hyde's actions are savage.		Week 5	He shows Utterson a letter from Hyde that suggests that this is the case.  • Utterson asks Guest, his head clerk, to compare the handwriting on the letter to that on an invitation from  Hyde that suggests that the suggests that		
Week 5 (9 <sup>th</sup>	Violent	An aggressive form of behaviour intended to cause harm.	Hyde was <b>violen</b> t when he murdered Carew.			Jekyll. There is a resemblance between the two, though the letters slope in opposite directions.		
	Juggernaut	An unstoppable force.	Hyde is described as being like 'some damned Juggernaut'.			<ul> <li>Utterson believes Jekyll has forged the letter in Hyde's handwriting to cover his escape.</li> </ul>		
	Duplicity	The act of being deceitful.	Jekyll's life becomes absorbed in duplicity.			<ul> <li>Chapter 6: Remarkable Incident of Dr Lanyon</li> <li>The police cannot find Hyde.</li> <li>Jekyll seems happier and socialises for two months. Suddenly, he appears depressed and will not see Utterson.</li> <li>Utterson visits Dr Lanyon to discuss their friend's health, but finds Lanyon on his death-bed.</li> <li>Lanyon refuses to discuss Jekyll who, he hints, is the cause of his illness.</li> <li>Trying to find out what has happened, Utterson writes to Jekyll. He receives a reply which suggests Jekyll has become very disturbed.</li> <li>Lanyon dies and leaves a letter for Utterson in an envelope marked 'not to be opened till the death or disappearance of Dr Henry Jekyll'.</li> <li>Utterson locks it away unopened in his safe.</li> <li>Utterson tries to revisit Jekyll several times, but Poole says he is will not see anyone.</li> </ul>		
1y- 20 <sup>th</sup> May)	Pathetic Fallacy	When the weather or setting reflect the mood of a scene	'the fog rolled in' (Chapter 4).					
Week 6 (16 <sup>th</sup> May-	Melancholy	Severe sadness, often with no obvious cause.	Utterson is described as:  'sitting there by the light of a melancholy candle'		Week 6			
	Simile	A comparison of objects using 'like' or 'as'.	"as empty as a church" (Enfield, Chapter 1)					
	atmosphere	The mood created in a text, location or between peoples	* ominous * * full of tension * scary calm * peaceful *					

	Oxymoron	Where two contradictory terms appear in conjunction.	"trampled calmy" (Chapter 1).			<ul> <li>Chapter 7: Incident at the Window</li> <li>On another of his Sunday walks with Enfield, Utterson tells his companion that he once saw Hyde and felt the same disgust as Enfield had described.</li> </ul>
-27 <sup>th</sup> May)	Morality	The belief that some behaviour is right and acceptable and other behaviour is wrong.	Hyde has a warped sense of morality. He does not act normally according to what is believed to be right and wrong.			Enfield reveals that he has found out that the door is the rear entry to Jekyll's laboratory. The pair come to the courtyard near the door and step into it.  They see Jekyll sitting at an upstairs
c 7 (23 <sup>rd</sup> May-27 <sup>th</sup>	Calamity	An event causing sudden damage and distress.	Jekyll's scientific interests have caused a calamity.		Week 7	window and call up to him. They encourage him to come and walk with them, but Jekyll refuses. He says his room is not fit for them to visit, so they cannot come up
Week	Dichotomy	A division or contrast between two things that are entirely different.	There is a <b>dichotomy</b> between Jekyll and Hyde.			either. They then say they will stand and talk with him. Jekyll at first agrees, but a look of horror soon crosses his face and he slams the window shut.
	Doggedly	Something done in a manner that that shows determination.	Utterson is <b>doggedly</b> determined to uncover the truth.			<ul> <li>Appalled at what they have seen in Jekyll's face, Enfield and Utterson walk away.</li> </ul>
	Human Nature	The natural ways of behaving that most people share.	Jekyll and Hyde represent the two sides of human nature.			Chapter 8: The Last Night  Utterson and Poole go to Jekyll's house. They go to the laboratory, but the door is locked. The voice from inside does not sound like Jekyll's and both men believe it is Hyde.  Poole says the voice has been crying out for a particular chemical to be brought, but the chemicals given have been rejected.  They break down the door and inside find a body, twitching. In its hand are the remains of a vial. The body is smaller than Jekyll's but wearing clothes that would fit him.  On the table is a will dated that day which leaves everything to Utterson, with Hyde's name crossed out. There is also a package
(7 <sup>th</sup> June-10 <sup>th</sup> June)	Primitive	Relating to the early stage of evolutionary development of something.	Hyde's behaviour towards others could be described as primitive, because he doesn't know how to act in a respectable way.			
Week 8 (7 <sup>th</sup> June-	Sibilance	Repetition of the 'S' sound for effect.	'snarled a savage laugh' (Chapter 2).		Week 8	
	Distinguished	Successful and commanding respect.	Utterson is a distinguished lawyer.			containing Jekyll's 'confession' and a letter asking Utterson to read Dr Lanyon's letter. Utterson tells Poole he will return
	Onomatopoeia	A word that reflects a sound.	'A dismal <b>screech</b> ' (Chapter 8)			before midnight, when he has read all the documents.

			Stevenson uses Jekyll and Hyde to			Chapter 9: Dr Lanyon's Narrative			
			explore the expectations and			<ul> <li>Chapters 9 and 10 are a series of letters explaining the</li> </ul>			
	Perverted	Sexually abnormal or unacceptable practices.	behaviour of gentlemen in			previous events. The first is a letter in a letter.			
			Victorian London. Hyde would			<ul> <li>In 9, Lanyon encloses a copy of the letter written him by</li> </ul>			
			likely have been perverted.		Week 9	Jekyll, giving him a series of strange instructions. Dr. Jekyll's			
7 <sup>th</sup> June)	Supremacy	State of being better than someone in terms of power/authority.	It could be argued that Hyde has supremacy over Jekyll.			message urges Lanyon to go to his laboratory and get his drawer full of medicine bottles.  He is to force the lock open, with the help of a locksmith which Poole will arrange for.			
9 (13 <sup>th</sup> June-17 <sup>th</sup> June)	Fear	An emotional response to a situation	Jekyll began to fear what he had created.			<ul> <li>Next, Lanyon is to return to his own home and at midnight, open the door to a short man (obviously Mr. Hyde), who will take the drawer. Lanyon, though now thinking that Jekyll has gone insane, does exactly as told and is soon met by Hyde,</li> </ul>			
Week 9	Triplet/Rule of Three	When three words/ phrases/ideas are used	'cold, scanty and embarrassed in discourse' (Chapter 1)			<ul> <li>who comes to the door and asks for the medicine drawer.</li> <li>Soon, Hyde enters Lanyon's home, seizes a specific bottle from the drawer and proceeds to drink it in one gulp.</li> <li>Instantly, Mr. Hyde, after drinking</li> </ul>			
	Fronted Adverbial	An adverb at the start of a sentence	'Rather, as there was something abnormal and misbegotten in the very essence of the 130 creature that now faced me' (Chapter 9)			the mixture, is transformed into the body of Dr. Jekyll.  This shock causes Lanyon's death.			
	Science	The study of the world through observation and experiment.	Lanyon and Jekyll both work in the field of science.						
June)	Motif	A recurring image or idea that informs a major theme.	Hyde's murder of innocent people is a motif for the immorality of Jekyll's dark side.			Chapter 10: Henry Jekyll's Full Statement of the Case     Jekyll tells the story of how he turned into Hyde.			
(20th June-24 <sup>th</sup> June)	Antagonist	The character that goes against the main character creating conflict.	Hyde is a very obvious antagonist.		√eek 10	<ul> <li>It began as a scientific investigation into the duality of human nature and an attempt to destroy his 'darker self'.</li> <li>Eventually he became addicted to being Hyde, who increasingly took over and</li> </ul>			
		The feeling of				destroyed him.			
Week 10		nervousness or worry	Stevenson introduces tension			acouty ca min.			
Nee	Tension	about what may happen	before Poole and Utterson break						
		in a story.	down the door.						
		Exaggerated language	"I would not have sacrificed my						
		not meant to be taken	left hand to help you." (Chapter 9).						
		seriously.	18						

	Contrast	An obvious difference between two or more things.	There is a <b>contrast</b> between the way Jekyll and Hyde behave.			<ul> <li>Key Theme: Appearance and Reality</li> <li>This is a theme that is heavily alluded to throughout the play.</li> <li>Not everything is as it seems. An everyday example would be you claiming that you had tidied your room, when actually all you had done was put a blanket over the mess.</li> <li>Key examples:         <ul> <li>The Door: signifies the line between appearance and reality. Jekyll/Hyde are able to keep their secrets largely through the confusion doors cause throughout.</li> <li>Red Baize door: Poole has to literally break into Jekyll/Hyde's secrets. This is symbolic of the line between</li> </ul> </li> </ul>
[y)	Tone	The overall attitude or mood of a text.	The <b>tone</b> in Chapter 8 could be described as sinister.		Week 11	
11 (27 <sup>th</sup> June-1s <sup>t</sup> July)	pronouns	A noun that refers to a person (I, you) or to someone or something (she, it, this).	"If he be Mr. Hyde," he had thought, "I shall be Mr. Seek." (Chapter 2).			
Week	juxtaposition	When two things close together are in contrast to each other	Jekyll and Hyde's personality are a juxtaposition of each other.			<ul> <li>appearance and reality finally being broken.</li> <li>The Window: Jekyll creates a physical division between his world and the outside world with the window.</li> </ul>
	lgnorant	Lacking knowledge of awareness of something.	Jekyll's staff are ignorant about who Hyde really is.			Chapter names: these are not very detailed or emotionally triggering. However, what happens in the chapters is-Stevenson has deliberately misled the reader.
	Foil	To prevent something from succeeding.	Poole and Utterson break down the laboratory door in an attempt to foil Jekyll's plan.			Key Theme: Duality of Man  • The belief that we all have good and evil in us.
	Degenerate	Having lost the physical, mental and moral qualities considered desirable.	Hyde can be considered a degenerate.			<ul> <li>What is important is the side you choose to act upon.</li> <li>Jekyll is a well-respected man who fits the ideals of a Victorian Gentleman.</li> <li>He has an evil side; his curiosity gets the better of him and</li> </ul>
	Allusion	A reference to a well- known person, place or text.	"God forgive us, God forgive us". (Chapter 7). (Allusion to the Bible).			this leads to his downfall, along with Lanyon's.
	Semantic field	A set of words that are related in meaning.	There is a semantic field of violence in the novella: trampled, mauled, hammered, blow, mangled.			
	Exclamation marks	Punctuation used at the end of a statement	"Hold your tongue!" (Chapter 8)			

# KO Extension/Revision tasks: Language Paper 2

# Writing non-fiction texts (Q5):

Have a look at the following webpages:

https://www.bbc.co.uk/bitesize/guides/zwt3rdm/revision/2

https://www.bbc.co.uk/bitesize/guides/zps4qty/revision/1

You can also use the information in your KO to help you.

Plan and write a speech on one of the following topics:

- 1. Your school has recently started selling nothing but burgers and chips in the canteen.
- 2. Facebook has introduced a new rule banning anyone from under the age of 18 from using it.

# **Comparing and Contrasting Writers' Viewpoints and Perspectives:**

https://filestore.aqa.org.uk/sample-papers-and-mark-schemes/2019/june/AQA-87002-INS-MQP18A4-JUN19.PDF

- 1. Put the above link into your web browser.
- 2. Read the two sources.
- 3. Consider how the writer's talk about their journeys. Make some notes on each.
- 4. Jot down key quotations that really tell you something about the journeys. Note any writer's methods.

E.G. 'storm-shaken old steamship'. The sibilance here provides the reader with a vision of the chaos of the weather as it batters the ship. The reader can imagine the ferocity of the waves as they fight the vessel.

# **Summarising Information (Q2):**

1. Insert this link into your web browser:

https://filestore.aga.org.uk/sample-papers-and-mark-schemes/2020/november/AQA-87002-INS-NOV20.PDF

2. Read and highlight important information in the following question:

You need to refer to Source A and Source B for this question. Both writers are accompanied by another person on their adventure: Simon in Source A, and Marius in Source B. Use details from both sources to write a summary of what you understand about the differences between the two companions, Simon and Marius.

Hopefully, you understand that the question wants you to write about the differences between Simon and Marius across the sources.

- 1. Make bullet point notes on how Simon is presented.
- 2. Make bullet point notes on how Marius is presented.
- 3. Think of 3 key points to make: is one helpful, one unhelpful? Is one ill, the other well? There are lots of things you could say.
- 4. Try writing up a response based upon your bullet points- model answers can be found on the AQA website under 'assessment resources'.

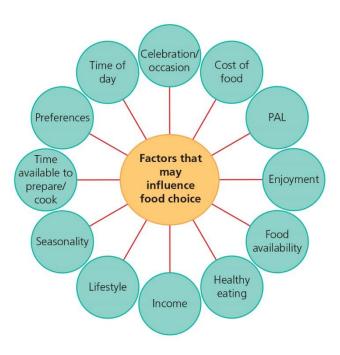
# GCSE Food Preparation and nutrition



# Cycle 3: Week 25 Food choice

Week 26
Labelling and marketing

There are several factors that might influence the food choices that you make. Below is a mind map of the key influences. Here you need to ensure you understand each section of the mind map and be able to explain how they would affect your food choices.



Alongside all the factors that might affect food choice there are also other reasons too. These include

- Cultural reasons The culture describes laws, morals, customs and habits and these influences why we choose to eat the foods we do.
- Moral and ethical beliefs Some ethical reasons may include animal welfare, farming methods, how the food as been produced, and how the food as been transported are some examples
- Religious reasons Many religions have specific rules relating to foods.
- Medical reasons Intolerances, allergies and specific medical conditions such as diabetes

# Importance of food labelling

The information on a food label is important to a consumer because:

- 1. They may want to maintain weight, so are looking for the fat and sugar content in the food
- 2. They may have a health condition, such as diabetes or high blood pressure, so they may want to check the carbohydrate content or the salt content of the food.
- 3. They may have a severe allergy to an ingredient so need to check the ingredients list.
- 4. If they need to complain about the food, they will need the manufacturers address.
- 5. They may have limited knowledge and experience on how to store and cook the product so will look to the packaging for information.
- 6. They may want to buy local or be environmentally aware and will want to know where the food comes from.
- 7. The information educates them about the food that they are buying
- 8. They can make informed choices.

Marketing is identifying consumers' needs and wants and using that information to supply consumers with products that match their needs and wants. There are a few ways that this is done well:

- Media influence
- Buy one get one free offer
- Free samples
- Price reductions and special offers
- · Loyalty cards and meal deals
- Product placement

Week 27	
Environmental impacts of foo	d

# The environment includes air, water and land on which people, animals and plants live.

To sustain our environment, we need to maintain and look after it by:

- · Using less energy
- Reducing water consumption
- Avoiding waste
- · Recycling and reusing as much as possible.
- Reducing our carbon footprint as much as possible

# The 6 Rs

- Rethink how much of the ingredient do we need to buy? Think about the most energy efficient cooking methods and think about reducing air miles – buying locally.
- Refuse Don't use material that is bad for the environment or cannot be recycled.
- Reduce Cut down the amount of packaging material on food, and conserve energy and water when you cook
- Reuse Use leftover food to create another dish. Reuse packaging such as jars
- Recycle Always recycle packaging
- Repair Fix equipment before buying new ones.

# **Environmental impacts of food production**

- Seasonal foods
- Packaging
- Food waste
- Local Produce
- Organic foods
- Transportation
- Sustainability

# Week 28 Food provenance and production methods

# Sustainable farming methods

Free range production

- This is a method of farming where animals have access to outdoor spaces for at least part of the day.
- Animals farmed this way include pigs, grassfed beef, laying hens, chickens and turkeys.

# **Intensive farming**

- This is a farming system that aims to produce as much yield as possible, usually with the use of chemical and in a restricted space.
- Intensive farming can be used with both crops and animals
- Intensive production means that animals can suffer from isolation or overcrowding, and cannot move around of behave naturally.
- Animals can be restrained from natural behaviours like grazing, foraging, running and nesting.

# **Genetically modified food**

Genetically modified foods are food produced from plants or animals that have had their information changed by scientists. The generic information controls the features that are passed on from one generation to the next. Scientists can change a plant or animal by adding genetic information from another plan or animal to it. By doing this, they are able to precisely select characteristics that they want in the generations of foods.

Genetically modified foods could have:

- Better resistance to insects, pests or disease
- Increased storage life when harvested
- Resistance to low rainfall
- Faster growth

# Week 29

Food production and processing

# The process of food production

- Most food undergoes some processing before appearing at the table. The whole process is referred to as 'field to fork'.
- Field to fork describes all the stages in the production of food from its source to the consumer.

The two stages of food production are primary and secondary food processing.

- Primary processing is changing of raw food materials into food that can be eaten immediately or can be processed further into other food products. Primary processing covers the transporting, sorting, cleaning, blending, cooking, preserving, packing and storage of the raw food.
- Secondary processing is when primary products are changed into other types of food products.

St	eps	Process	Why
1	Sieving and checking	Flour arrives at the bakery from the flour mill. It is stored in large silos.	It is checked for metals or any other impurities.
2	Mixing and kneading	The ingredients are pumped into a giant mixer. The ingredients are mixed at high speed for 5 minutes.	Simply blending the ingredients is not enough to start gluten development; the dough needs to be worked.
3	Dividing	The dough is removed and divided into individual pieces by a machine.	All batches must be identical.
4	First rising	Dough circulates along a conveyor belt and the yeast becomes active. This is rising.	<b>Rising</b> is when the yeast fills the dough with gas (carbon dioxide), causing it to rise.
5	Knocking back	The dough is kneaded for about 2 minutes by a machine. The kneaded dough passes along another conveyor belt until it is dropped into pre-greased tins.	This stage ensures that the gas is distributed throughout the dough in small bubbles.
6	Proving	The tins pass along the conveyor belt into a warm area. The dough is placed at 45°C for about 50 minutes to allow the yeast to work.	The dough will be three times its original size. The dough has a fine texture.
7	Baking	The tins move slowly on a conveyor belt through a huge oven for about 20 minutes. Basic bread doughs are usually baked at about 200°C.	The dough rises rapidly as the gas (carbon dioxide) is produced. The yeast dies and rising stops. The dough sets and browns.
8	Cooling	The bread loaves are mechanically sucked out of their tins and cooled.	Long, slow cooling allows crust formation.
9	Slicing	The bread is sliced mechanically and bagged.	The label gives the weight and best before dates.

# Week 30 Sustainability of food – Food security

Food security is when all people, at all times, have access to enough safe and nutritious food for them to lead an active healthy life.

The world is facing a possible crisis in terms of food security. It is all about meeting the challenge to provide the worlds growing population with a sustainable, secure supply of safe, nutritious and affordable high quality food, without having a negative affect on the environment.

There are 4 features of food security

- 1. Availability of food
- 2. Access to food
- 3. Use of food
- 4. Stability of the supply

Food security requires all four features to be met at the same time.



# Week 31 Food processing methods

# **Blanching**

Before food is canned or frozen, it is usually heated very quickly with steam or water. The water-soluble vitamins, including vitamin C and B are sensitive to heat and are reduced by blanching.

Blanching is boiling fruit or vegetables for a short time to destroy enzymes, before plunging them into iced water to stop the cooking process

# **Canning**

Sealed food inside a metal can and then subject to high temperature pressure cooking (at least 115 degrees) to destroy the microbes, and form a vacuum so no other microbes can enter the can until it is opened

# **Pasteurisation**

Fresh food is heated very quickly in a heat exchanger to 72 degrees for 15 seconds, then very rapidly cooled to below 10 degrees

Fresh milk is heat treated to kill pathogenic bacteria and make it safer to drink for several days as long as it is stored correctly

# **Sterilisation - Ultra heat treatment**

Ultra-heat treatment (UHT) involves heating food very quickly in a heat exchanger to 132-135 degrees for 1-2 seconds, then rapidly cooling and packing it inside special multi-layered storage packs.

These are completely sealed so that the food can be stored, un-opened and at ambient temperature for several months.

Once opened, UHT foods must be stored in a fridge and consumed within a few days.

# Week 32

# Technological developments associated with better health

# **Fortification of foods**

Fortification of foods means to strengthen the food by the addition of nutrients. This can be done by increasing the original nutrients found in the food or adding other nutrients to the food that don't naturally occur. This is sometimes also called supplementation Some foods fortified by law include:

- Vegetable fat spreads and low-fat spreads Vitamins A and D
- All types of flours, expect wholemeal Iron, thiamine, niacin, calcium

# **Voluntary fortification**

As the processing of some foods can result in nutrient losses, there are also several ways in which nutrients can be added to foods to compensate for these variations:

- 1. Enrichment the addition of nutrients that would naturally occur in a specific food
- 2. Restoration the addition of a nutrient to a specific food in order to restore lost nutrients
- 3. Standardisation as the nutrient levels in foods vary, standardisation is the addition of nutrients to a consistent level to compensate for variations.

# **Cholesterol lowering food products**

Natural substances called sterols and stanols that are found in plants are added to food products such as cholesterol-lowering vegetable fat spreads, yoghurts

# **Food additives**

Food additives are added to foods to improve:.

- 1. Shelf life Preservatives
- 2. Wider range of products instant gravy, mash, custards etc..
- 3. Improve flavour
- 4. promote benefits such as increased vitamin

	Seneca completion list
Week 25:	Week: 31
5.1.1 Factors Which Influence Food Choice	6.1.9 End of Topic Test - Environmental Impacts
5.1.2 Food Choices	6.2.6 End of Topic Test - Food Processing & Production
5.1.3 Religious Food Choices	Week32:
Week 26:	6.2.4 Fortification
5.1.4 Food Labels	6.2.5 Additives
5.1.5 Mandatory Food Labels	Week 33:
5.1.6 Optional Food Labels	5.3.1 Taste Receptors & Olfactory Systems
5.1.7 Marketing Influences	5.3.2 Sensory Testing Methods
5.1.8 End of Topic Test - Food Choice	5.3.3 Sensory Testing Methods 2
Week27:	5.3.4 End of Topic Test - Cuisines & Senses
6.1.5 Food & The Environment	Week34:
6.1.6 Food & The Environment 2	5.2.1 British Cuisine
Week 28:	
6.1.1 Food Sources - Intensive & Organic Farming	5.2.2 Japanese Cuisine
6.1.2 Food Sources - Genetically Modified Crops	5.2.3 Japanese Ingredients & Dishes
6.1.3 Food Sources - Reared Food	5.2.4 Spanish Cuisine
6.1.4 Food Sources - Caught Food	5.2.5 Spanish Ingredients & Dishes
Week 29:	Week35:
6.2.1 Primary Food Processing	Consolidation of Seneca – ensure all Seneca is complete.
6.2.2 Primary Food Processing 2	Week 36- NEA1 and NEA2 focus. Ensure you understand how to complete each piece of coursework.
Week 30:	
6.1.7 Sustainability of Food	
6.1.8 Sustainability of Food 2	

	Cycle 1 super teach	ning week resource:	
Carbohydrates	Gelatinisation, dextrinization and caramelisation	Aeration	Fats
Shortening and plasticity	Recall as much as you	ge blocks can from the topics we ed in cycle 1	Coagulation and Denaturation
Foam formation and gluten formation	Micronutrients	Water in the diet	Protein

# Cycle 2 super teaching week resource:

Different dietary requirements	Diet related diseases	Heat transfer	Cooking methods
Fermentation	Knowledge blocks Recall as much as you can from the topics we have covered in cycle 2		Raising agents
Lifestages	Food safety	Food poisoning	Micro-organisms

# Cycle 3 super teaching week resource:

Food choice	Labelling food	Marketing food	Sustainability
Bread making process	Knowledge blocks Recall as much as you can from the topics we have covered in cycle 3		Primary processing
Cheese and yoghurt making	Food provenance	Technological developments in food	Secondary processing

# Time expressions

le matin in the morning l'après-midi in the afternoon le soir in the evening le lundi on Monday(s) lundi dernier last Monday lundi prochain next Monday le week-end prochain next week-end le week-end dernier last week-end en été in summer en hiver in winter l'année dernière last year le mois dernier last month la semaine dernière last week hier vesterday il y a deux jours 2 days ago le lendemain the day after demain tomorrow la semaine prochaine next week le mois prochain next month l'année prochaine next year maintenant now au iourd'hui today plus tard later à huit heures at 8 o'clock

# Give your opinion and justify it

je pense que I think that

**je crois que** I believe that

à mon avis in my opinion

selon moi in my opinion + parce que ....

**je trouve que** I find that

j'ai trouvé que I found that

j'ai pensé que I thought that

# Y11 French Knowledge Organiser 3

# **Opinions** $\bigcirc$ J'adore $\bigcirc$ J'aime beaucoup $\bigcirc\bigcirc\bigcirc\bigcirc$ J'aime bien $\odot\odot$ + le/la/les/l' 🤒 J'aime J'aime assez $(\Xi)$ Je n'aime pas beaucoup + infinitive $\Theta$ Je n'aime pas $\otimes \otimes \otimes$ Je n'aime pas du tout 8888Je déteste Justify! I prefer ie préfère I would prefer je préférerais I would have preferred j'aurais préféré

# Give a Reason

C'était-it was / C'est-it is / Ce sera-it will be

	V V
<u>Positive</u>	<u>Negative</u>
amusant (e) funny	affreux (euse) horrible
intéressant (e) interesting	ennuyeux (euse) boring
pratique practical	nul (le) rubbish
fantastique fantastic	dégoûtant (e) disgusting
parfait (e) perfect	difficile difficult
passionnant (e) fascinating	dangereux (euse) dangerous
délicieux (euse) delicious	mauvais (e) bad
sympa nice	effrayant (e) scary
fabuleux (euse) fabulous	<b>bête</b> silly
excellent (e) excellent 28	une perte de temps waste of time
relaxant (e) relaxing	désastreux (euse) desastrous

# Connectives

et and mais but quand when ou or

qui who,which
parce que/ car because
puisque as,since
cependant however

**néanmoins** nevertheless

puis then si if

donc therefore où where

par conséquent as a result alors then/so whereas

par contre on the other hand

d'un côté on one hand

de l'autre côté on the other hand

# **Adverbs**

malheureusementunfortunatelyheureusementfortunatelyd'abordfirstly

normalement normally

généralement generally

de temps en temps from time to time

souvent often
finalement finally

**iamais** never

# After having done something

Use Past Participle (pp) of the verb

après avoir regardé= after watchingaprès avoir fini= after finishingaprès avoir attendu= after waiting

après être allé(e)(s)(es) = after going après être sorti(e)(s)(es) = after going out après être rentré(e)(s)(es) = after coming home

après m'être habillé(e)(s)(es) = after getting dressed après m'être lavé(e)(s)(es) = after having a wash

# **Direct Object Pronouns: avoid repetitions (A grade)**

Find if the word you are referring to is feminine, masculine, or plural and choose your pronoun: **La**, **Le**, **Les**; then follow the rules below

It goes in front of the verb: **Je les aime** = *I like them* 

Je l'aime = I like it, I like him, I like her

In a negative sentence it goes between 'ne' and the verb:

Je ne les aime pas= I don't like them je ne l'aime pas = I don't like it, him, her

# Y11 French KO3: Grade 7 /8 / 9

# While / by doing something

en jouant while playing

en mangeant while eating

en faisant while doing

en allant while going

# The negative

Goes around the verb

ne/n'....pas not

ne.... aucune not any/not one

ne.... jamais never ne ...personne nobody

ne.....plus no more/no longer

ne....que only

**ne....rien** *nothing, not anything* 

ne...pas encore not yet
ne...ni...ni... neither nor

# Y means 'there'

It goes in front of the verb. Useful to avoid repetitions of a name of a place already mentioned.

J'y vais demain= I go/ I am going there tomorrow.

J'y suis allé(e) en vacances = I went there on holiday

Je vais y aller = I am going to go there
Je n'y suis jamais allé(e)= I have never been there

# Classroom Language

- 1. I need J'ai besoin de
- 2. I have/ I don't have J'ai / Je n'ai pas de
- 3. I understand Je comprends
- 4. I don't understand Je ne comprends pas
- 5. I have finished J'ai fini
- 6. Please / thank you S'il vous plait / merci
- 7. May I ... Puis-je...
- 8. Repeat Répétez s'il vous plait
- 9. How do you say Comment dit-on...
- 10. I've forgotten J'ai oublié
- 11. I would like Je voudrais...

# **Comparative** (bigger, smaller, more expensive than)

plus ...que = more ...than - je suis plus grand(e) que toi = I am bigger than you

moins ...que = less ... than - elle est moins grande que moi = she is less tall than me

aussi ...que = as...as- nous sommes aussi grand(e)s que notre père = we are as tall as our

# Before doing something

avant de / d'+ infinitive (verb ending with ER, IR, RE)

avant de manger = before eating

avant d'aller = before going

avant de me coucher = before going to bed

Spain reaches the 'New World' c1490-1512. 1.1 Spanish Exploration

1	In the 1490s Spain had ambitions to expand its religious influence and trade prospects abroad. Crusades
	were used to achieve both these aims. Most of Europe was mapped. The Spice Trade with the East Indies
	was well established. Portugal and Spain were rivals.

# **Key Events**

2	1479 – Spain politically united under joint rule of Ferdinand and Isabella.
3	<b>1484</b> – Columbus approached King John of Portugal for sponsorship – refused.
4	1486 – Columbus approached Ferdinand and Isabella for sponsorship – refused.
5	1490 – Spain religiously united – drove out Muslims and Jews.
6	1491 – Ferdinand and Isabella sponsored Columbus.
7	1492 – Columbus' first voyage. Landed on San Salvador. La Navidad built on Haiti. Conquest of Granada.

# **Key Concepts/Questions**

Explain the
importance of
Queen Isabella's
•
sponsorship of
Columbus for
Spanish
exploration.

- · Pious and crusading spirit.
- Crusades aimed to convert people to Christianity in unknown lands. The Catholic Church approved of these so normally approved similar expeditions.
- The Pope (head of the Catholic Church) supported them.
- Isabella believed she'd benefit spiritually if Spain funded expeditions.
- Crusades justified the expansion of the Spanish Empire and gaining of treasure.
- The Catholic monarchs realised Crusades could increase their wealth, and make them more powerful against their European rivals (England, France, and Portugal).

# What challenges were there on Columbus' voyage in 1492?

- **Finding ships and crew** Martin and Vicente Pinzon helped Columbus get ships and crew.
- 2 caravels (small and fast sailing ships) the Nina and the Pinta 1 carrack (masted sailing ship used for commerce/trade) – the Santa Maria (flagship)
- Rivalry at sea Columbus had to change routes to avoid Portuguese caravels.
- Sailors' fears Columbus kept 2 different logs of the journey to stop sailors getting worried. One was accurate and he kept secret so not to worry his crew but to keep an accurate record, whereas the other log recorded shorter distances again so he did not worry his crew.

**Possible mutiny** - As the sailors had not spotted land for so long, they came close to utiny. They allowed Columbus 2 more weeks before they said they would mutiny and rn back.

uarrels - Columbus and Martin Pinzon disagreed on the route. Columbus struggled to ep control.

ınd - On the 10<sup>th</sup> October, after 6 weeks at sea, the crew finally spotted land.

<u>K</u>	Key Words		
8	Crusade	A campaign for religious change, often seen as a 'holy war'.	
9	The 'Catholic monarchs'	Isabella I of Castile and Ferdinand II of Aragon, King and Queen of Spain	
10	The East Indies	The lands and islands of South and South-East Asia, which became popular for their spices - the 'Spice islands.'	
11	The Spice Trade	Trade between Asia and Europe in spices e.g. pepper and ginger.	
12	Christendom	The worldwide community of Christians.	
13	Christopher Columbus	The son of a weaver and a seaman, he was an explorer and navigator who completed four voyages across the Atlantic Ocean, opening the way for the widespread European exploration and colonization of the Americas.	
14	Navigation	To plan and follow a route.	
15	Sponsorship	To give someone financial support.	
16	Imperialism	Extending a country's power and influence through colonization, use of military force, or other means. To build an Empire.	
17	Annexation	To incorporate land into another state's political boundaries.	
18	Colony	A country or area under the full or partial political control of another country and occupied by settlers from that country.	
19	Settlement	A place, typically one which has previously been uninhabited, where people establish a community.	
20	Expedition	A journey undertaken by a group of people with a particular purpose, especially that of exploration.	
21	Monopoly	Complete control – in this case over trade with another country.	
22	Conquistador	An armed adventurer and explorer who went to the New World looking for gold, glory, and power.	
23	Mutiny	The refusal to obey the orders of a person in authority e.g. the captain.	

# Spain reaches the 'New World' c1490-1512. 1.2 Columbus reaches the New World

Columbus's voyage of exploration and discovery reached the 'New World' in 1492. Columbus explored
the area looking for gold and founded a settlement at La Navidad, Haiti. Contact with the Caribbean
natives was peaceful at first, but conflict later arose. Portugal and Spain both believed they had a claim
to the New World – the dispute was resolved through the Treaty of Tordesillas, 1494.

# **Key Events**

2	October 1492 – Columbus discovered San Salvador Island (Guanahani).
3	November 1492 – Rebellion! Martin Pinzon sailed away in the Pinta, without Columbus' permission, to look for gold.
4	December 1492 – Santa Maria wrecked on a reef. Columbus used its timbers to build La Navidad.
5	March 1493 – Columbus sailed back to Europe on board the Nina, landing first in Portugal, then Spain.
6	1494 – Treaty of Tordesillas was agreed which divided the "New World" into land, resources, and people claimed by Spain and Portugal.

# **Key Concepts/Questions**

ney concepts) Questions		
Explain the importance of the Treaty of Tordesillas 1494.	<ul> <li>The treaty gave Spain most of the New World. Ferdinand and Isabella were now in a position to claim Mexico, North America and most of South America, in addition to the Caribbean.</li> <li>This meant any gold and silver found in these territories would go only to Spain.</li> <li>Spain now had a major incentive to explore further and conquer much of the New World; as a way of obtaining gold, silver, tobacco and other resources.</li> </ul>	
Explain two consequences of Columbus' return to Spain in March 1493.	<ul> <li>Rewards - Isabella and Ferdinand encouraged Columbus to carry out another voyage. Columbus was given new titles, a new coat of arms and issued a pension for life. He was also given powers to govern lands in the New World.</li> <li>The role of the Pope - The Pope gave Isabella and Ferdinand his support for the new 'Spanish Indies'. He was excited by Columbus' discoveries and wanted Christianity to spread to these lands.</li> <li>Rivalry with Portugal - King John believed he had claim to the lands Columbus had discovered. This led to talks with Spain to determine who had rights over what lands as Spain were getting ready to send Columbus back to govern.</li> </ul>	
Explain the importance of the settlement at La Navidad (1492) for Spanish exploration of the New World.	<ul> <li>1st indication that Spaniards were in the New World to stay and therefore explore further.</li> <li>The fort gave the men somewhere to live. La Navidad protected sailors from attack.</li> <li>Important for all further Spanish exploration in the New World because it showed that while some native tribes were friendly, others were not and resented the entry of the</li> </ul>	

Spanish into their world.

7	San Salvador	An island that Columbus discovered in the Caribbean (known as Guanahani to the natives).
8	Natives	People who lived on the Island Columbus discovered – were referred to as 'Indians' as they originally thought they had landed in India.
9	La Navidad	Columbus built a fort for protection. Founded a settlement.
10	Martin Pinzon	Helped Columbus get ships and crew. BUT then rebelled – sailed away in the Pinta to look for gold, without asking Columbus for permission.
11	The Pinta	Columbus' ship – Martin Pinzon sailed away on it.
12	The Santa Maria	Columbus' flagship. Wreckage used to build La Navidad.
13	The Nina	Columbus' smallest ship.
14	Ceiba trees	Trees that produced light, fluffy balls of kapok that could be spun into thread or woven into cloth.
15	Tainos	A tribe of native people living on the Caribbean islands, who were usually peaceful.
16	Caribs	A tribe of native people living on the Caribbean islands who were usually war-like, and possibly cannibals.
17	Pope	Head of the Catholic Church. Gave support to Ferdinand and Isabella.
18	Treaty of Tordesillas 1494	An agreement between Spain and Portugal. An imaginary line was drawn from the North to the South Pole. All lands to the West were for Spain. Lands to the East were for Portugal.
19	Cannibals	A person who eats the flesh of other human beings.
20	Samana	On way back to Spain, Columbus and his crew landed here (now the Dominican Republic). Men went ashore and found dried human heads and large canoes. An exchange went wrong and erupted into violence. They learnt that the natives could be hostile.





# Spain reaches the 'New World' c1490-1512. 1.3 Spanish claims in the Caribbean

1	Contact with the Caribbean natives in 1492 was peaceful at first, but conflict later arose. Columbus made 3
	further voyages. Spanish settlement, from 1493 onwards, had significant effects on the New World and the
	natives. Following Columbus' discovery of the New World, the Spanish government needed to develop an
	imperial policy to enable it to control trade and religion in the newly discovered lands.

# **Key Events**

2	1493 - Columbus' second voyage. He became Governor of Haiti on this voyage.
3	1496 – Columbus left the settlement at Isabela – left his brothers Bartholomew and Diego Columbus in charge.
4	<b>1499</b> - Francisco de Bobadilla replaces Columbus as Governor in Santo Domingo after reports of Columbus' brutality reach Spain.
5	1500 - Columbus is sent back to Spain.
6	1512 – The Laws of Burgos – these established the encomienda system.

# **Key Concepts/Questions**

Key concepts/ Questions		
Explain the importance of Santo Domingo for Spanish control of the New World.	<ul> <li>1496 – Columbus left the settlement at Isabela, placing his brothers, Bartholomew and Diego, in charge. Bartholomew abandoned Isabela and set up a new colony at Santo Domingo.</li> <li>1498 – Columbus returned from Spain to find the settlement at Santo Domingo in uproar. Columbus calmed the revolt by offering the settlers some rights – land and native labourers to work on it. However, discontent continued, and Columbus responded by hanging several Spaniards and natives.</li> <li>Columbus appealed to Ferdinand and Isabella for help. They sent representative Bobadilla to replace Columbus as governor. Bobadilla upheld the settlers' complaints and in 1500, Columbus was taken back to Spain to face trial.</li> </ul>	-
Explain the importance of Roman Catholic missionaries for the development of the New World.	<ul> <li>In 1503, Ferdinand and Isabella issued a series of rules about educating the Indians:         <ul> <li>Indians were to live in towns and pay taxes.</li> <li>Taught about Christianity and expected to live as Christians.</li> <li>Taught how to read, write and dress.</li> </ul> </li> <li>Reports reached Spain about the abuses of Indians. Dominicans were sent to stop the mistreatment, as the Spanish were shocked at the mistreatment of natives.</li> <li>The conversion of the region was viewed as crucial for colonization. The missions created by members of Catholic orders were often located on the outermost borders of the colonies. The missions facilitated the expansion of the Spanish empire through the religious conversion of the indigenous peoples occupying those areas. While the Spanish crown dominated the political, economic, and social realms of the Americas and people indigenous to the region, the Catholic Church dominated the religious and spiritual realm.</li> </ul>	
Explain two consequences of Spanish settlement in the New World.	<ul> <li>Gold mines set up in Haiti – most of the work done by natives.</li> <li>Tainos and Carib societies destroyed in order to provide work for the Spanish.</li> <li>Columbus had captured natives to sell as slaves – Isabella not pleased and sent slaves back to Haiti.</li> <li>Encomienda system set up. Nicolas de Ovando set this up in 1502.</li> <li>Diseases like smallpox killed many natives. 1492 around 500,000 natives. By 1507 only 60,000.</li> </ul>	

Isabela	Columbus formed a new settlement 'Isabela' – but it was unsuccessful because of the poor location and most Spanish settlers were more interested in gold.
Santo Domingo	Bartholomew Columbus built Santo Domingo after abandoning Isabela.
Las Cortes	The Spanish Parliament – mainly nobles and middle-class men.
Francisco de Bobadilla	Representative of the Spanish government, sent to replace Columbus in the New World.
Encomienda	A Spanish labour system that rewarded conquerors with the labour of particular groups of conquered non-Christian people. The laborers, in theory, were provided with benefits by the conquerors for whom they laboured, such as protection from other tribes.
Encomendero	The name given to a man in charge of an encomienda.
Smallpox	An infections disease caused by a virus. Symptoms = rash that develops into blisters in the mouth and skin. Can cause blindness and death. Survivors have pock-marked skin.
Imperial policy	The policy developed by the Spanish government towards its growing empire in the New World.
Monopoly	Complete control – in this case, over trade with another country.
Franciscan	A member of a Roman Catholic religious community (monk) seeking to persuade people to become Christians by example – by living a life of poverty and humility, as Christ had done.
Dominican	A member of a Roman Catholic religious community (monk) seeking to persuade people to become Christians by teaching and preaching about Christ.
Casa de Contratación	House of Trade – to ensure Spain controlled all trade with the Caribbean.
Catholic Missionaries	Catholic monks and nuns – taught natives about Christianity.
Laws of Burgos December 1512	Laws maintained the encomienda system – which turned the natives into slaves. Allowed Spanish officials to punish natives who broke the laws.
	Santo Domingo Las Cortes Francisco de Bobadilla Encomienda  Encomendero Smallpox  Imperial policy  Monopoly Franciscan  Dominican  Casa de Contratación  Catholic Missionaries Laws of Burgos

# The conquistadors, 1513-1528. 2.1 The start of an Empire

Between 1513 and 1528, the Spanish conquistadors conquered Panama, Cuba, Mexico and Peru, and circumnavigated the globe. Between 1511-1514 **Velázquez** conquered Cuba, giving Spain complete control over the Caribbean. **Magellan**'s voyage around the globe resulted in the opening up of the Pacific for trade and exploration and gave Spain control over the Philippines.

# **Key Events**

	Vasco Núñez de Balboa conquers Central America		
2	<b>1509</b> – Balboa rescued a Spanish expedition in trouble on mainland America.		
3	<b>1510</b> – Founded the first permanent settlement on mainland America, Santa María la Antigua del Darién.		
4	<b>1511</b> – Confirmed, by King Ferdinand, as captain general and governor of Darién.		
5	<b>1513</b> – Expedition across Isthmus of Panama – found the Pacific and claimed it and surrounding lands for Spain.		
6	<b>1514</b> – Planned an expedition to sail south on the Pacific. Replaced as governor by Pedrarias Dávila. Arrested for treason, tried and beheaded.		

- 1					
			Diego Velázquez de Cuéllar conquers Cuba		
	7	7	1511 – Hatuey a native chief living in Haiti, flees to Cuba with 400 natives to escape Spanish cruelty. Velazquez and 300 conquistadors pursue them.		
	8	8	<b>1512</b> – After strong native resistance, Hatuey is captured and burned alive.		
	9	9	1513 – Massacre at Caonao – 1000s of natives killed.		
	1	10	<b>1514</b> – Conquest of Cuba complete. City of Santiago de Cuba founded and becomes capital of Cuba.		
	1	11	1515 – City of Havana founded.		

# **Key Concepts/Questions**

Explain 2 consequences
of Balboa's exploration
of the Isthmus of
Panama.

- Panama was founded as a Spanish territory under Pedrarias as Royal Governor and became an important colony.
- From Panama, Pedrarias explored the Pacific coast. Balboa is also credited as being the first European to see the Pacific Ocean from the New World.
- The route through Panama led to Magellan's circumnavigation of the World.
- Balboa helped establish the first stable European settlement on the mainland of South America. The colony of Darien in Panama helped Spain establish a vast colonial empire in the Americas.

# Write a narrative account analysing the key events of the Spanish conquest of Cuba.

- Velázquez sailed from Hispaniola to create a Spanish settlement on Cuba, beginning a war with the native Tainos people.
- The native population was defeated, which made it possible for the Spanish to begin colonising the island.
- The first Spanish settlement was founded in Havana, which gave the Spanish a base from which to colonise the rest of the island.
- As the Spanish spread across the island, they captured the native population and placed them on reservations, removing this threat to their authority.
- Tobacco plantations made Cuba an extremely successful colony for the Spanish, who started using it as their main base in the Caribbean.

# Explain two consequences of the voyage of Magellan (1519-22)

- It established the earth was round and that Columbus was correct in his belief that the East Indies could be reached by sailing westwards.
- It opened up the Pacific, leading to the exploration of the East Indies and the Philippines. Ships could also sail up the Pacific coast opening up the west coast of North America to exploration and trade. By the mid 1540s, places such as California were being visited by Spanish explorers.
- New trade route was found. It meant that Spain could claim the Spice Islands as they had found a western route to it.
- It brought prestige to Spain Magellan and his ships were the first to complete a voyage of global circumnavigation.

	12	Conquistador	An armed adventurer and explorer who went to the New World looking for gold, glory and power.
	13	Isthmus	A narrow strip of land, with sea on both sides.
	14	Balboa	Spanish explorer and conquistador.
	15	Darién	Abandoned Indian village – became a Spanish settlement called Santa María la Antigua del Darién.
	16	Panama	Founded as a Spanish territory under Pedrarias Dávila.
	17	Pedrarias	Royal Governor of Panama.
1	18	Gaspar de Espinosa	Pedrarias Dávila's second in command.
1	19	Velázquez	Spanish explorer and conquistador who conquered Cuba.
1	20	Hatuey	A native chief who had escaped from Haiti with 300 followers. Captured in 1512. Burned to death.
	21	Massacre at Caonao, 1513	2000 native people were massacred by the Spanish, who ran amok in the village.
	22	Ferdinand Magellan	Voyage opened up Pacific for trade and exploration.
	23	Circumnavigate	To travel (usually sail) around the world.





Figure 2.2 A map showing the expeditions of Balboa in 1513.

# The conquistadors, 1513-1528. 2.2 The conquest of Mexico

Cortés' 1519 expedition to Mexico resulted in the collapse of the Aztec Empire and in Spanish control over Central America. The Spanish invasion had far-reaching effects for the Aztecs.

# **Key Events**

2	1519 – Cortés' expedition to Mexico. They arrived March 1519 and were given La Malinche (Mayan woman who became an interpreter).	
3	October 1519 – Massacre at Cholula.	
4	<b>November 1519</b> – The Spanish entered Tenochtitlan. Montezuma submitted to the Spanish and became a 'puppet ruler'.	
5	June 1519 – Montezuma was killed and the Spanish were forced out of Tenochtitlan during the Night of Tears.	
6	August 1521 – Tenochtitlan fell to the Spanish and the Aztecs surrendered.	
7	1523 – Cortés was named as Governor of New Spain.	
8	1528 – Cortés was removed as Governor and returns to Spain.	



# **Key Concepts/Questions**

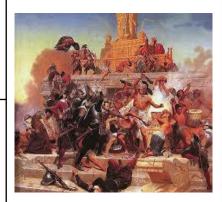
Explain two		
consequences of the		
Spanish conquest of the		
Aztecs.		

- One consequence of the conquest of the Aztecs was the human cost. Evidence to support this is that
  when Cortes arrived in Mexico there were about 25 million Aztecs in the empire. However by 1555 there
  were only about 6.2 million Aztecs left. Over 2/3rds of the population had died from war, disease and
  famines. This meant that the Aztec society and culture was destroyed. Therefore, Spanish conquest of
  the Aztecs had the consequence of removing the Aztec culture and leaving a vacuum for the Spanish to
  fill.
- Another consequence of the Spanish conquest of the Aztecs was the spreading of Christianity. Evidence
  to support this is Franciscan and Dominican Friars went to Mexico and attempted to convert the Aztecs.
  They used the hierarchy of Aztec society to spread Christianity. This meant that the Aztec's polytheistic
  religion was replaced by the monotheism of Christianity and was absorbed into the structure of Aztec
  society. Therefore the conquest of the Aztecs led to the spreading of Christianity and the death of the
  polytheism of the Aztecs.

# Write a narrative account analysing the key events of Cortés' expedition to Mexico, 1519.

- **February 1519** Sailed from Cuba, despite Velázquez's attempts to stop him.
- March Landed on the Yucatan Peninsula and claimed the land for Spain.
- April Fought Tabascan natives and took control of city of Pontonchon. They made peace with the Tabascans and became allies with them. Cortés was given Mayan woman, La Malinche who acts as an interpreter.
- July Re-established a Spanish settlement at Vera Cruz. Sunk his ships.
- August Met by cheering natives at Cempoala and became allies with them.
- September Fought Tlaxcalans enemies of the Aztecs –made peace and allies with them.

9	Hernán Cortés	Spanish explorer and conquistador who conquered Mexico.
10	Flotilla	A small fleet of ships or boats.
11	Aztec Empire	Worshipped many Gods. Human sacrifices.
12	Tenochtitlan	Aztec capital – 300,000 people (pronounced Tenoch-ti-clan).
13	Malinche	Cortés' mistress and interpreter.
14	Montezuma	Ruled the Aztec Empire.
15	Cholula	Massacre of 3000 people.
16	Tlaxcalan	A native tribe who became allies with the Spanish.
17	'Puppet King'	A person who appears to be ruling, but in reality someone else is telling them what to do.
18	Night of Tears	Spaniards are massacred as they flee from Tenochtitlan and spend nearly a year re-grouping and planning.



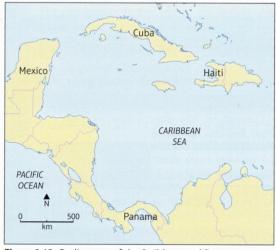


Figure 2.13 Outline map of the Caribbean and Panama.

# The conquistadors, 1513-1528. 2.3 The impact of Spain in the New World

The capture of Tenochtitlan marked the end of the Aztec Empire, enabling Cortés, as Governor and Captain-General, to turn Central America into New Spain. The Spanish invasion had far reaching effects for the Aztecs.

# **Key Events**

2	<b>1519</b> – Cortés first set foot in Mexico. It was home to 25 million natives.
3	1523 – Cortés was given title of Governor and Captain-General of New Spain.
4	1528 – Cortés was removed as Governor and returned to Spain.
5	1555 – There were only 6.2 million natives left in Mexico.



# **Key Concepts/Questions**

Explain two consequences of the Spanish conquest on the Aztecs.	<ul> <li>One consequence of the conquest of the Aztecs was the human cost. When Cortés arrived in Mexico there were about 25 million Aztecs in the empire. By 1555 there were only about 6.2 million Aztecs left. Over 2/3 of the population had died from war, disease and famines. This meant that the Aztec society and culture was destroyed. Therefore, Spanish conquest of the Aztecs had the consequence of removing the Aztec culture and leaving a vacuum for the Spanish to fill.</li> <li>Another consequence of the Spanish conquest of the Aztecs was the spreading of Christianity. Franciscan and Dominican Friars went to Mexico and attempted to convert the Aztecs. They used the hierarchy of Aztec society to spread Christianity. This meant that the Aztec's polytheistic religion was replaced by the monotheism of Christianity and was absorbed into the structure of Aztec society. Therefore the conquest of the Aztecs led to the spreading of Christianity and the death of the polytheism of the Aztecs.</li> </ul>
Explain the importance of Cortés' actions as Governor and Captain- General of New Spain for Spanish control of Mexico.	<ul> <li>Cortés claimed the land for Spain and founded new cities, which encouraged more Spaniards to move to and settle in New Spain.</li> <li>Cortés built Mexico City, which became an important seat of political power from which Spain could control the rest of the country.</li> <li>Cortés introduced Catholicism and requested large numbers of friars from Spain, who converted a lot of the native population and spread the Spanish language. This decreased resistance to Spanish rule.</li> <li>Cortés encouraged agriculture and thousands of plants were cultivated across the country, increasing New Spain's independence as a colony and encouraging settlement of the whole country.</li> </ul>
Explain the importance of the encomienda system in the establishment of a Spanish empire.	<ul> <li>The Encomienda system was important for the establishment of a Spanish empire because it enabled the Spanish to control the land. Evidence to support this is that the Spanish Encomenderos controlled all of the land in the New World but obeyed the laws of Spain and produced what the Spanish wanted. For example, cloth, silver gold, maize and avocado pears. This shows that the encomienda system was important for the establishment of a Spanish empire because it meant that the New World followed the laws and needs of Spain and supplied Spain with materials that it wanted. Therefore the Encomienda system enabled the Spanish to control the land in the New world and establish an empire.</li> <li>The Encomienda system was important for the creation of a Spanish empire because they ensured that the Spanish would want to colonise the New World. Evidence to support this is that the Encomienderos were like 'little dictators ' who could do as they like with their Encomiendas and the peoples who lived on them. The land was passed from father to son like a kingdom. This shows that the encomienda system was important for the creation of a Spanish empire because it provided an incentive for Spanish people to move to and settle in the New World. Therefore the encomienda system resulted in the establishment of a Spanish empire.</li> </ul>

<del></del>			
6	New Spain	The name given by Spain to the Aztec Empire conquered by Cortés, centred on Mexico.	
7	Council of the Indies	A council of Spanish officials originally set up by Ferdinand and Isabella to study the problems of colonisation in the Caribbean. It was based in Spain. By the time of Charles I, it exercised supreme power over the administration of Spanish lands in the New World.	
8	Encomienda	A Spanish labour system that rewarded conquerors with the labour of particular groups of conquered non-Christian people. The laborers, in theory, were provided with benefits by the conquerors for whom they laboured, such as protection from other tribes.	
9	Monotheistic	The belief that there is only one god.	
10	Polytheistic	The belief in or worship of more than one god.	
11	Tribute	Payment made regularly to ensure protection/show dependence on a ruler e.g. natives paid tribute to encomenderos such as gold.	
12	Tenochtitlan	The capital of the Aztec empire: founded in 1325; destroyed by the Spanish in 1521; now the site of Mexico City.	
13	Charles I/V	King of Spain from 1516-1556/Holy Roman Emperor from 1519 (grandchild of Ferdinand and Isabella).	
14	Friars	A member of a religious orders of men. Franciscan/Dominican friars worked with the Aztecs to convert them to Christianity.	
15	Hierarchy	Order of importance.	

# The Spanish Empire, 1528-1555. 3.1 Pizarro and the conquest of the Incas

**Key Words** 

de Toledo





# Francisco Pizarro, a conquistador and mayor of Panama city, launched a series of expeditions southwards to find Peru, which eventually brought him into contact with the Incas. Pizarro's third expedition arrived in Peru in 1532 to find an empire weakened by smallpox. In 1533, Pizarro had Atahuallpa executed and installed Manco, his half-brother, on the throne, leading to the Inca revolt and the siege of Cuzco, 1536-37.

# **Key Events**

2	1524 – Pizarro's first expedition.	
3	1526-27 – Pizarro's second expedition.	
4	1530-32 – Pizarro's third expedition.	
5	16 <sup>th</sup> November 1532 – Battle of Cajamarca. The ambush and seizure of the Inca ruler Atahuallpa by a small Spanish force led by Francisco Pizarro. The Spanish killed thousands of Atahuallpa's commanders, and unarmed attendants in the great plaza of Cajamarca. The capture of Atahuallpa marked the start of the conquest of the Inca.	
6	1533 – The murder of Atahuallpa.	
7	1536 – Revolt of the Incas.	
8	1536-37 – The Siege of Cuzco.	

# Caribbean Sea Sea Francisco Pizarro Exploration and invasion — 1524-25 …… 1526-27 — 1530-32 San Juan River Placific Ocean Atacames Pirance Cajamarca Cajamarca Cajamarca Cuzco M Pizarro's expeditions in the New World

# **Key Concepts/Questions**

of the Spanish Empire.

Explain two consequences of the Siege of Cuzco (1536-37) for the Spanish conquest of Peru.	<ul> <li>Spanish atrocities throughout the 10 months further lowered morale among the Inca troops, which led to their eventual surrender.</li> <li>Manco Inca withdrew from Cuzco and launched a new Inca state elsewhere, which meant that the Spanish were able to continue their conquest of Peru without any significant threat.</li> <li>The Spanish destroyed the Inca settlement at Cuzco and built a Spanish settlement over the top of it, which provided them with a base to help them colonize the rest of Peru.</li> <li>The conquistadors took gold and silver, shipping some back to Spain.</li> <li>Disease devastated the Inca population reducing it by 93% by 1591.</li> </ul>
Write a narrative account analysing the Spanish conquest of Peru in the years 1528-48.	<ul> <li>In 1528 Pizarro secured a licence from the Spanish Crown that resulted in him being named Governor of Peru.</li> <li>In 1530 Pizarro arrived in Peru and took advantage of the Inca Civil War, which weakened opposition to Spain's forces.</li> <li>Pizarro was able to launch a successful attack against Atahualpa, who was executed in 1533.</li> <li>The capital, Cuzco, was attacked in 1533 and this led to the setting up of a new capital at Lima.</li> <li>In 1536 the Incas revolted against Spanish rule, leading to a ten-month siege of Cuzco which ultimately resulted in a victory for Spain.</li> <li>Despite some resistance in 1548, Pedro de la Gasca was able to establish Spanish authority over Peru.</li> </ul>
Explain the importance of Pizarro's expedition of 1526-27 for the growth	<ul> <li>Pizarro's expedition of 1526-27 brought evidence to Spain of Inca wealth, including Ilamas, silver and gold.</li> <li>Pizarro's discoveries in his expedition meant that he wanted to launch a further expedition to Peru. However, he was refused permission to do so by the governor of Panama, so he returned to Spain in 1528 to petition the king</li> </ul>

to approve an expedition to conquer Peru. This resulted in a licence called La Capitulación de local local de la Capitulación de local loc

giving Pizarro permission to launch an expedition aimed at adding Peru to the Spanish Empire.

9	Francisco Pizarro	A conquistador, best known for his expeditions that led to the Spanish conquest of Peru and defeat of the Inca.
10	Inca Empire	A civilization which flourished between 1400-1532 CE along the Andes Mountains in South America, in modern day Peru, with the capital city of Cuzco.
11	Inca	'Ruler' or 'emperor'. Huayna Capac was his people's Inca. Inca also refers to people living in the Inca Empire.
12	Huaya Capac	A powerful Inca Emperor.
13	Atahuallpa and Huascar	Sons of Huaya Capac.
14	Manco	The half brother of Atahuallpa and Huascar – Pizarro installed him as Inca.
15	Civil War	A war between organised groups within the same country.
16	Smallpox	An infections disease caused by a virus. Symptoms: a rash that develops into blisters in the mouth and skin. It can cause blindness and death. Survivors have pock-marked skin. This disease reached Peru in 1527 thanks to Spanish expeditions.
17	Encomienda	A Spanish labour system that rewarded conquerors with the labour of particular groups of conquered non-Christian people. The laborers, in theory, were provided with benefits by the conquerors for whom they laboured, such as protection from other tribes.
18	Viceroys	A ruler exercising authority in a colony on behalf of a monarch. They were appointed to govern Spanish territories.
19	Mangrove swamp	Mangroves are small trees that grow along many tropical coastlines. They form dense barriers for people trying to land.
20	La Capitulación	July 1529 – Authorized Pizarro to conquer Peru.

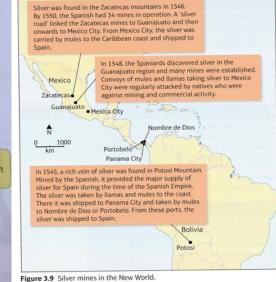
The Spanish Empire, 1528-1555. 3.2 Expansion of the Spanish Empire

Kev Words

- 1		ICY WOIGS	
	9	Acquiring	Gold and silver objects were acquired either as gifts through barter or by stealing. These were melted down and formed into ingots (block of gold or silver).
	10	Prospecting	The process of searching for gold and silver. The Spanish began prospecting for gold. Many employed natives to wash out surface gold from streams and rivers.
	11	Mining	Digging for gold and silver. In the <b>1530s</b> the Spanish took over existing gold mines from the natives. In the <b>1540s</b> , extensive deposits were found and silver mines opened.
	12	Smelt	The process of heating the rock until the mineral turns to liquid.
_	13	Ore	A naturally occurring solid material from which a metal or valuable mineral can be extracted e.g. gold or silver.
4	14	Viceroy	A ruler exercising authority in a colony on behalf of a monarch. They were appointed to govern Spanish territories.
_	15	Cabildos	The town councils in the New World that managed daily life following orders from the Viceroy.
	16	Audiencia courts	Courts that managed justice in the New World.
_	27	Bartolomé de las Casas	A priest who travelled to the New World in 1512. He wrote about the atrocities faced by the natives, and he supported New Laws.
	18	La Paz 1548	A town that was founded to commemorate the ending of Pizarro's revolt and to

demonstrate that Spain was the highest authority – not the conquistadors.

	The Crown of Spain	
	1 1	
Th	e Council of the Indie	s
//	1	
The Viceroy of Peru	The	Viceroy of New Spain
It N	1	The low spain
+1		1
The cabildos	The audiencias	The cabildos



The discovery of silver led to the development of mining towns with increased use of slave labour and brought significant wealth to the Spanish Empire. The New World was conquered for Spain by the conquistadors, but the Spanish government had to find a way of governing this newly won territory effectively. The city of La Paz, founded in 1548, became the administrative centre of the Spanish Empire.

# **Key Events**

<u>,</u>	<del></del>				
2	<b>1524</b> – The Council of the Indies was formed. This was responsible for the governing of the Spanish Empire, and controlled the colonies and territories.				
3	1527 – Bartolomé de las Casas entered a monastery and wrote 'A Short Account of the Destruction of the Indies.'				
4	1542 – The New Laws were created which intended to improve the lives of the natives.				
5	1545 – Silver was found in Potosi Mountain (Bolivia). It was mined by Spanish.				
6	1546 – Silver was found in Zacatecas mountains (Mexico). By 1550 there were 34 mines mining for silver.				
7	1548 – Silver was found in Guanajuato region (Mexico). It was mined by Spanish.				
8	1548 – La Paz was founded. It became the centre of Spanish authority in the New World				

# **Key Concepts/Questions**

Explain two consequences of the discovery of silver in the Spanish Empire for Spain.	<ul> <li>The huge quantities of silver being shipped back encouraged more Spaniards to move to the New World to seek their fortunes.</li> <li>The job and wealth opportunities led to vast mining camps being formed in the area around Potosi, increasing the number of Spaniards settled in the New World.</li> <li>Spaniards moved to the region from Spain due to an increase in the number of skilled jobs available, for example, those connected to the mining industry.</li> <li>Supply routes and new towns, most notably La Paz, became established on the route connecting Potosi with Lima, entrenching Spanish control.</li> </ul>		
Write a narrative account analysing the conquistador revolt in Peru, 1544.	<ul> <li>The New Laws were unpopular among the encomenderos as they reduced their power and took away the right to pass their land to heirs.</li> <li>This led to a serious revolt in Peru led by Gonzalo Pizarro, brother of Francisco Pizarro.</li> <li>The rebellion was initially successful, and Gonzalo was able to rule the Inca territory for two years.</li> <li>However, the arrival of a Spanish army resulted in his execution and the restoration of Spanish authority.</li> <li>The revolt posed a problem about how Spain could govern its territories and control the rebellious encomenderos and conquistadors. This led to the founding of La Paz in 1548.</li> </ul>		
Explain the importance of viceroys for governing Spain and its Empire in the New World.	<ul> <li>Viceroys in the New World were powerful as they governed on behalf of the Spanish government.</li> <li>They were the official representative of the Spanish crown.</li> <li>The laws they passed affected both Spanish and native people.</li> </ul>		

The Spanish Empire, 1528-1555. 3.3 The impact of the New World on Spain

Silver, and some gold, was used to make coins and played an important role in enabling Spain to trade with the wider world. Spain's monopoly of trade with the New World led to the development of Seville as a port, and growing labour shortages led to an expansion of the slave trade. A system of government, based in Castile, Spain, was developed to govern the New World. The role of the Casa de Contratación and the Council of the Indies was to regulate trade.



# **Key Events**

2	1520s – Bullion (treasure) arrived in Spain.	
3	<b>1522</b> – The Spanish government sent fleets of ships to escort returning ships into port.	
4	<b>1542</b> – Full scale war with France. Attacks on Spanish treasure fleets intensified.	
5	<b>1542-46</b> – Spain adapted ships and developed systems to protect their fleets.	
6	1543 – Consulado de Mercaderes (merchants' guild) was founded.	
7	By 1555 – Seville had the monopoly on trade with the New World.	

# Veracruz Havana Portobelo Cartagena Panama Callao Lima Spanish trade routes, 1500–1600

# **Key Concepts/Questions**

- The encomienda system brought the land under the control of Spanish families, who imposed Spanish laws and systems on the New World. This increased Spanish control.
- Encomiendas were hereditary (passed from father to son). As a result, families moved to the New World and settled permanently, creating a permanent society.
- Native labour formed part of the encomienda system. As a result, millions of natives became enslaved.
- The most lucrative *encomiendas* were reserved for the biggest investors, which meant that more people were encouraged to join and invest in conquest expeditions, leading to further conquest.

# Write a narrative account analysing the effect of silver on Spain's economy.

- 75% of the treasure that arrived in Spain went to Spanish merchants and conquistadors. The rest went to the Spanish treasury.
- It was used to make 'pieces of eight' (pesos), which allowed extensive trade with other European countries.
- Demand for goods increased, which enabled foreign traders to put up their prices.
- This led to inflation as Spanish merchants passed on price rises to ordinary people, many of whom demanded higher wages.
- The silver was vital to support Spain's European Empire, equipping soldiers to make war against France (1542-46) and providing ships to guard the treasure fleets.
- However, as Spain's economy was based on the looted silver, people did not have to make money in other ways, with the result that Spanish industries developed more slowly than in other European countries.

# Explain the importance of the New Laws (1542) for governing the New World.

- The laws were intended to improve the rights of the native people, but encomenderos opposed them and the Viceroy of Peru refused to implement them.
- This led to revolts in Peru: the most serious (1544) had to be put down by the Spanish government and led to a temporary halt in the Spanish conquest of the New World in 1550.
- Though forced to suspend the New Laws, Charles I insisted that encomiendas be passed back to the Crown on the death of an encomendero, with Royal Agents in charge. The agents continued to exploit the native people, against the wishes of Las Casas.

<u>key words</u>				
8	Monopoly	Complete control – in this case, over trade with another country.		
9	Bullion	A word that refers to all kinds of treasure – but mainly gold and silver.		
10	Pieces of eight	Silver coins.		
11	Inflation	A situation where prices rise more quickly than wages.		
12	Privateers	Private ships that were licensed by rival governments (e.g England, France, Portugal) to attack, sink or capture enemy ships.		
13	Broadside	A ship firing broadside fired its canons from the sides of the ship.		
14	Galleons	Spanish ships.		
15	'Tierra Firma'	A convoy system to protect ships. This route sailed to South America.		
16	'New Spain'	A convoy system to protect ships. This route sailed to Mexico.		
17	Seville	A port in Spain. It became one of wealthiest cities in Europe by 1550.		
18	Casa de Contratación	House of Trade – A system of government, based in Castile, Spain, was developed to govern the New World.		
19	Consulado de Mercaderes	A merchant's guild (group) that worked with the Casa de Contratación to control trade with the New World.		
20	Council of the Indies	Controlled all matters involving New World. They sent orders to the Viceroys in the new World.		
21	Encomienda	A Spanish labour system that rewarded conquerors with the labour of particular groups of conquered non-Christian people. The laborers, in theory, were provided with benefits by the conquerors for whom they laboured, such as protection from other tribes.		

Algebra
 Ratio, proportion and rates of change
 Geometry & measures
 Probability
 Statistics

N15

Here is pretty much all the Foundation Tier content we could fit onto an A3 sheet of paper, including all the formulae you are required to know for GCSE. An → points to an illustrative example. The codes refer to the DfE subject content. Pin this to a wall, keep it on your desk, carry it in your bag, make notes on it (sorry, don't take it into the examination)...

1st 2nd 3rd 4th 5th

Square numbers  $(n^2 = n \times n)$ :

 $2^2$   $3^2$ 

Cube numbers  $(n^3 = n \times n \times n)$ :

8 27

*n*th term of an arithmetic (linear)

→ *n*th term of 5,8,11,14,... is 3n+2

Geometric sequence; multiply each

Fibonacci sequence; make the next

term by adding the previous two ...

 $p = \frac{n(\text{equally likely favourable outcomes})}{n}$ 

Multiply for independent events

→ P(6 on dice and H on coin)

1 1 1

 $\frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$ 

 $\frac{1}{6} + \frac{1}{6} = \frac{1}{6}$ 

Apply these rules to tree diagrams.

Add for mutually exclusive events

n(equally likely possible outcomes)

impossible

unlikely

evens

certain

P8, P9

likely

(always increases by 3; first term is

sequence is an + d

 $3 \times 1 + 2 = 5.$ 

Probability

p = 0

p = 0.5

p=1

0

0.5

Probability rules

**→** P(5 or 6 on dice)

Parts of a circle

term by a constant ratio

→ 3, 6, 12, 24, ... (ratio is 2)

**→** 2, 4, 6, 10, 16, 26, 42, ...

 $2^3$   $3^3$ 

3 6 10 15

4 9 16 25

42

 $4^{3}$ 

64 125

Sequences

G20, G22

tan*θ*°

1

 $\sqrt{3}$ 

1

 $\sqrt{3}$ 

Triangular numbers:

A24, A25

...or BODMAS. Use the correct order of operations; take care when using a calculator.

- Brackets
- Indices (or p**O**wers)
- Division and Multiplication
- Addition and Subtraction

# Types of number

Integer: a "whole" number Factors; the divisors of an integer → Factors of 12 are 1, 2, 3, 4, 6, 12 Multiples; a "times table" for an integer (will continue indefinitely) → Multiples of 12 are 12, 24, 36 ... Prime number: an integer which has exactly two factors (1 and the number itself). Note: 1 is not a prime number.

# HCF, LCM

Highest Common Factor (HCF) **→** Factors of 6 are 1, 2, 3, 6 Factors of 9 are 1, 3, 9 HCF of 6 and 9 is 3 Lowest Common Multiple (LCM) → Multiples of 6 are 6, 12, 18, 24, ... Multiples of 9 are 9, 18, 27, 36, ... **LCM of 6 and 9 is 18** 

# Prime factors

Write a number as a product of its prime factors; use indices for repeated factors:  $720 = 5 \times 3^2 \times 2^4$ 

Powers and roots

Special indices: for any value *a*:  $a^{0} = 1$ 

$$a^{-n} = \frac{1}{a^n}$$

# Calculating with fractions

Adding or subtracting fractions; use a common denominator...

$$\frac{4}{5} - \frac{1}{3} = \frac{12}{15} - \frac{5}{15} = \frac{7}{15}$$

Multiplying fractions; multiply numerators and denominators...

$$\frac{7}{7} \wedge \frac{7}{3} = \frac{7}{3}$$

Dividing fractions; "flip" the second fraction, then multiply...

$$\frac{2}{7} \div \frac{5}{6} = \frac{2}{7} \times \frac{6}{5} = \frac{13}{33}$$

# Fractions, decimals

Fraction is numerator  $\div$  denominator

 $\frac{5}{9} = 5 \div 8 = 0.625$ 

Use place values to change decimals to fractions. Simplify where possible.

$$0.45 = \frac{45}{100} = \frac{9}{20}$$

Learn the most frequently used ones:

1	1	1	1	3
2	$\overline{4}$	10	5	$\overline{4}$
0.5	0.25	0.1	0.2	0.75

factor of the number:

# Standard form

Standard form numbers are of the form  $a \times 10^n$ , where  $1 \le a < 10$  and n is an integer.

# Standard units

1 tonne = 1 000 kilograms 1 kilogram = 1 000 grams

1 kilometre = 1 000 metres 1 metre = 100 centimetres

= 1 000 millimetres

# Rounding

Truncate the number, then use a

162.36 **8**1 **= 162.37 to 2dp** Significant figures: use the first nonzero digit.

0.007 039 to 3sf;

# Error intervals

N6, N7

N8

N10

round to a given value:

 $5.825 \le x < 5.835$ 

 $\rightarrow$  y = 46 (2 significant figures)

Note use of  $\leq$  and  $\leq$ , and that the last significant figure of each is 5.

# Algebraic notation

 $ab = a \times b$ 3v = v + v + v $a^2 = a \times a$  $a^3 = a \times a \times a$  $a^2b = a \times a \times b$  $\frac{a}{b} = a \div b$ 

# **Equations and identities**

value of *x* 

# Laws of indices

For any value *a*:  $a^x \times a^y = a^{x+y}$ 

Look for the biggest square number  $\sqrt{80} = \sqrt{16 \times 5} = 4\sqrt{5}$ 

1 centimetre = 10 millimetres

1 day = 24 hours

1 hour = 60 minutes = 3 600 seconds1 minute = 60 seconds

"decider digit" to round up or down. Decimal places: use the decimal point 162.3681 to 2dp;

162.3681 to 2sf; 16 | **2**.3681 = **160** to **2**sf

 $0.007\ 03\ 9 = 0.007\ 04\ to\ 3sf$ 

N15 Find the range of numbers that will

 $\rightarrow$  x = 5.83 (2 decimal places)

 $45.5 \le y < 46.5$ 

An equation is true for some particular value of x...

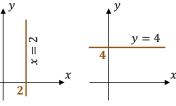
→ 2x + 1 = 7 is true if x = 3...but an identity is true for every

 $(x+a)^2 \equiv x^2 + 2ax + a^2$ (note the use of the symbol  $\equiv$ )

on its own. Use rules that "balance" the formula to change its subject  $\rightarrow$  Make x the subject of 2x + 3y = z

> Here, subtract 3y from both sides... 2x = z - 3y

# Standard graphs



Equation of straight line y = mx + cm is the gradient; c is the *y* intercept: **→** Find the equation of the line that joins (0,3) to (2,11)Find its gradient...

11 - 3 8

 $\frac{\phantom{0}}{2-0}=\frac{1}{2}=4$ ...and its y intercept...

Passes through (0, 3), so c = 3. Equation is y = 4x + 3.

Parallel lines: gradients are equal;

→ y = 2x + 3 and y = 2x - 5 both

# have gradient 2, so are parallel. Expanding brackets

p(q+r) = pq + pr5(x-2y)=5x-10y $(x + a)(x + b) = x^2 + ax + bx + ab$ (2x-3)(x+5) $=2x^2-3x+10x-15$  $=2x^2+7x-15$ 

Reverse of expanding is factorising putting an expression into brackets.

# Quadratics

Solve a quadratic by factorising. **→** Solve  $x^2 - 8x + 15 = 0$ Put into brackets (taking care with any negative numbers)...

(x-3)(x-5)=0...then either x - 3 = 0 or x - 5 = 0, so that x = 3 or x = 5.

# Difference of two squares

 $a^2 - b^2 = (a + b)(a - b)$  $\rightarrow$   $x^2 - 25 = (x+5)(x-5)$ 

Simultaneous equations Solve  $\begin{cases} 2x + 3y = 11 \\ 3x - 5y = 7 \end{cases}$ 

Multiply to match a term in x or y(10x + 15y = 55)

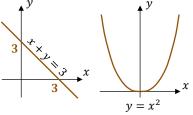
9x - 15y = 21Add or subtract to cancel...

19x = 76, so x = 4Finally, substitute and solve...  $2 \times 4 + 3y = 11$ , so y = 1

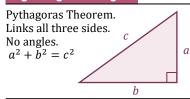
# Rearrange a formula

The subject of a formula is the term

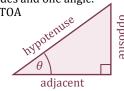
...then divide both sides by 2...



# Right angled triangles



Trigonometry. Links two sides and one angle. SOH CAH TOA



 $\sin\theta = \frac{\text{opp}}{\text{hyp}} \quad \cos\theta = \frac{\text{adj}}{\text{hyp}}$ 

# Use "2ndF" or "SHIFT" key to find a missing angle

# Areas and volumes G16, G17, G18, G23

 $y = x^3$ 

The longest side of any right

hypotenuse; check that your

Special values of sin, cos, tan

 $\sin\! heta^\circ$ 

0

 $\sqrt{3}$ 

1

 $\cos \theta^{\circ}$ 

1

 $\frac{\sqrt{3}}{2}$ 

 $\sqrt{2}$ 

0

Learn (or be able to find

without a calculator)..

θ°

0

30

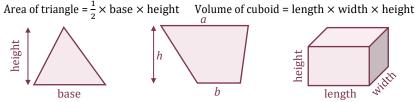
45

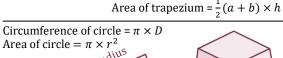
60

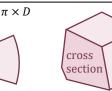
90

answer is consistent with this.

angled triangle is the













length

# Volume of cylinder = $\pi r^2 \times \text{height}$ Area of sector = $\frac{\sigma}{360^{\circ}} \times \pi \times r^2$ Volume of prism = area of cross section × length

# **Transformations**

# Reflection

Equal angles in parallel lines:

Alternate angles 39

always use correct terminology...

Translation

Angle facts

Vector

 $Arc length = \frac{\sigma}{360^{\circ}} \times \pi \times D$ 

Rotation

• Line of reflection • Centre of rotation

 Angle of rotation Clockwise or anticlockwise

Corresponding angles

Enlargement · Centre of enlargement

line total 180°

• Scale factor (if SF < 1 the shape will get smaller).

# Angles in a full

G7, G8

Angles on a straight turn total 360°



triangle total 180°

Interior angles in a Use this for the interior angles of any polygon...

circumfer

...or  $180^{\circ} \times (n-2)$ 

Division using ratio

Use a ratio for unequal sharing → Divide £480 in the ratio 7:5 7 + 5 = 12, then £480 ÷ 12 = £40  $7 \times £40 = £280, 5 \times £40 = £200$ 

(check: £280 + £200 = £480  $\checkmark$ )

# Ratio and fractions

Link between ratios and fractions **→** Boys to girls in ratio 2 : 3

→ Increase £58 by 26%.  $\frac{20}{100} \times £58 = £15.08$ 

y as a percentage of  $x = \frac{y}{x} \times 100\%$ 

increases from 3 500 to 4 620. Find the percentage increase. 1 120

 $\frac{2320}{3500} \times 100\% = 32\%$ 

Learn the most frequently used ones:

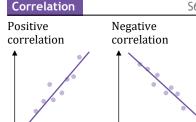
1	1	1	1	1
2	4	10	5	100
50%	25%	10%	20%	1%

distance Speed =

→ A car travels 90 miles in 1 hour. 30 minutes. Find its average speed.

Mode: most frequently occurring Median: put the data in numerical order, then choose the middle one

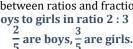
# total of items of data



always total 360°

G3





 $y \text{ percent of } x = \frac{y}{100} \times x$ 

£58 + £15.08 = £73.08

→ The population of a town

Note: fraction  $=\frac{100000}{\text{original}}$ 

1	1	1	1	1
1	1	1	1	1
2	4	10	5	100
50%	25%	10%	20%	1%

# Speed, distance, time

time

90 miles  $\div$  1.5 hours = 60 mph

# Averages

R11

number of items of data

Exterior angles

Here is pretty much all the Higher Tier content we could fit onto an A3 sheet of paper, including all the formulae you are required to know for GCSE. An → points to an illustrative example. The codes refer to the DfE subject content. Pin this to a wall, keep it on your desk, carry it in your bag, make notes on it (sorry, don't take it into the examination)...

You will be given the formula to use:

 $\rightarrow$  Solve  $x^3 + 6x + 4 = 0$  by using

 $x_2 = \sqrt[3]{6 \times (-2.8) - 4} = -2.750 \dots$ 

 $x_3 = \sqrt[3]{6 \times (-2.750 \dots) - 4} = \cdots$ Repeat until you know the solution, or

you do as many as the question says.

the iteration  $x_{n+1} = \sqrt[3]{6x_n - 4}$ .

Start with  $x_1 = -2.8$ .

Listing strategies

Product rule for counting:  $\rightarrow$  4 × 3 × 2 × 1 = 24 ways to arrange the letters P, I, X and L.

Powers and roots N6, N7

Special indices: for any value *a*:

$$a^0 = 1$$

$$a^{-n} = \frac{1}{a^n}$$

$$a^{2} - b^{2} = (a + b)(a - b)$$

$$x^{2} - 25 = (x + 5)(x - 5)$$

Look for the biggest square number

 $8^{\left(\frac{2}{3}\right)} = \sqrt[3]{8^2} = 4$ 

factor of the number:  $\sqrt{80} = \sqrt{16 \times 5} = 4\sqrt{5}$ 

# Rationalise the denominator N8

Multiply the numerator and denominator by an expression that makes the denominator an integer:

$$\frac{4}{\sqrt{7}} = \frac{4 \times \sqrt{7}}{\sqrt{7} \times \sqrt{7}} = \frac{4\sqrt{7}}{7}$$

$$\frac{2}{4 + \sqrt{5}}$$

$$=\frac{2}{4-\sqrt{5}}\times\frac{4-\sqrt{5}}{4-\sqrt{5}}=\frac{2(4-\sqrt{5})}{11}$$

# Standard form

Standard form numbers are of the form  $a \times 10^n$ , where  $1 \le a < 10$  and *n* is an integer.

# Recurring decimals

Make a recurring decimal a fraction:  $n=0.2\dot{3}\dot{6}$ 

(two digits are in the recurring pattern, so multiply by 100) 100n = 23.6

(this is the same as  $23.6\dot{3}\dot{6}$ ) 99n = 23.636 - 0.236 = 23.4 $n = \frac{23.4}{99} = \frac{234}{990} = \frac{13}{55}$ 

Error intervals N15

Find the range of numbers that will round to a given value:

 $\rightarrow$  x = 5.83 (2 decimal places)  $5.825 \le x < 5.835$ 

 $\Rightarrow$  y = 46 (2 significant figures)  $45.5 \le y < 46.5$ 

Note use of  $\leq$  and  $\leq$ , and that the last significant figure of each is 5.

# Equations and identities

An equation is true for some particular value of x...

 $\Rightarrow$  2x + 1 = 7 is true if x = 3 ...but an identity is true for every value of x

 $(x+a)^2 \equiv x^2 + 2ax + a^2$ (note the use of the symbol  $\equiv$ )

# Laws of indices

For any value *a*:

value 
$$a$$
:
$$a^{x} \times a^{y} = a^{x+y}$$

$$\frac{a^{x}}{a^{y}} = a^{x-y}$$

$$(a^{x})^{y} = a^{xy}$$

# Difference of two squares

$$a^{2} - b^{2} = (a + b)(a - b)$$

$$x^{2} - 25 = (x + 5)(x - 5)$$

# Rearrange a formula

The subject of a formula is the term on its own. Rearrange to

 $\rightarrow$  Make x the subject of 2x + ay = y - bx2x + bx = y - ayx(2+b)=y-ay $x = \frac{y - ay}{2 + b}$ 

Combining functions:

$$fg(x) = f(g(x))$$

$$\Rightarrow \text{ If } f(x) = x + 3 \text{ and } g(x) = x^2$$

$$fg(x) = x^2 + 3$$

$$gf(x) = (x + 3)^2$$

The inverse of f is  $f^{-1}$ 

→ If 
$$f(x) = 2x + 5$$
 then
$$f^{-1}(x) = \frac{x - 5}{2}$$

Equation of straight line y = mx + cm is the gradient; c is the y intercept: **→** Find the equation of the line that joins (0,3) to (2,11)

Find its gradient... 11 - 3 = 8 $\frac{}{2-0}=\frac{}{2}$ 

...and its y intercept... Passes through (0, 3), so c = 3. Equation is y = 4x + 3.

Parallel lines: gradients are equal; perpendicular lines: gradients are "negative reciprocals".

 $\rightarrow$  v = 2x + 3 and v = 2x - 5 are parallel to each other; y = 2x + 3

and  $y = -\frac{1}{2}x + 3$  are perpendicular

# Transformations of curves A13

Starting with the curve y = f(x): Translate  $\binom{0}{a}$  for y = f(x) + a

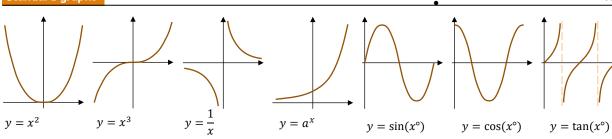
Translate  $\binom{-a}{0}$  for y = f(x + a)

# Reflect in x axis for y = -f(x)Reflect *y* axis for y = f(-x)

Velocity - time graph

Gradient = acceleration (you may need to draw a tangent to the curve at a point to find the gradient); Area under curve = distance travelled.

# Standard graphs



## Ouadratics A11, A18

If a quadratic equation cannot be factorised, use the formula

 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$   $\Rightarrow \text{Solve } 2x^2 + 3x - 7 = 0$ 

$$x = \frac{-3 - \sqrt{9 - (-56)}}{2 \times 2} = -2.73$$
or 
$$x = \frac{-3 + \sqrt{9 - (-56)}}{2 \times 2} = 1.23$$

Complete the square to find the turning point of a quadratic graph.

 $y = x^2 - 6x + 2$  $y = (x-3)^2 - 9 + 2$   $y = (x-3)^2 - 7$ Turning point is at (3, -7)

# Equation of a circle

 $x^2 + y^2 = r^2$  is a circle with centre (0,0) and radius r.  $\Rightarrow$   $x^2 + y^2 = 25$  has centre

(0,0) and radius 5.

## Simultaneous equations A19

One linear, one quadratic;

⇒ Solve  $\begin{cases} x + 3y = 10 \\ x^2 + y^2 = 20 \end{cases}$ 

Rearrange the linear, and substitute into the quadratic

$$x = 10 - 3y$$
so  $(10 - 3y)^2 + y^2 = 20$ 
Expand and solve the quadratic
$$100 - 60y + 9y^2 + y^2 = 20$$

$$10y^2 - 60y + 80 = 0$$

$$y = 2 \text{ or } y = 4$$

Finally, substitute into the linear and solve, pairing values...

 $x + 3 \times 2 = 10$  so (x, y) = (4, 2) $x + 3 \times 4 = 10$  so (x, y) = (-2, 4)

# Sequences

nth term of an arithmetic (linear) sequence is bn + c

 $\rightarrow$  nth term of 5,8,11,14,... is 3n+2(always increases by 3; first term is  $3 \times 1 + 2 = 5.$ *n*th term of a quadratic sequence is

 $an^2 + bn + c$ **→** First three terms of

 $n^2 + 3n - 1$  are 3, 9, 17, ... Geometric sequence; multiply each term by a constant ratio

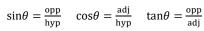
→ 3, 6, 12, 24, ... (ratio is 2) Fibonacci sequence; make the next term by adding the previous two ... **→** 2, 4, 6, 10, 16, 26, 42, ...

# Right angled triangles

Pythagoras Theorem. Links all three sides. No angles.  $a^2 + b^2 = c^2$ 

Advanced trigonometry

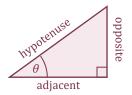
Trigonometry. Links two sides and one angle. SOH CAH TOA



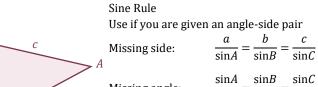
Use "2ndF" or "SHIFT" key to find a missing angle

A12

Iteration



The longest side of any right angled triangle is the hypotenuse; check that your answer is consistent with this.



 $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$ Missing angle:

Cosine Rule Use if you can't use the sine rule

Missing angle:  $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$ 

Special values of sin, cos, tan Learn (or be able to find without a calculator)...

$$\sin 0^{\circ} = 0$$
,  $\cos 0^{\circ} = 1$ ,  $\tan 0^{\circ} = 0$   
 $\sin 30^{\circ} = \frac{1}{2}$ ,  $\cos 30^{\circ} = \frac{\sqrt{3}}{2}$ ,  $\tan 30^{\circ} = \frac{1}{\sqrt{3}}$ 

Cosine Rule 
$$\sin 45^\circ = \frac{1}{\sqrt{2}}, \quad \cos 45^\circ = \frac{1}{\sqrt{2}}, \quad \tan 45^\circ = 1$$
 Use if you can't use the sine rule 
$$\sin 60^\circ = \frac{\sqrt{3}}{2}, \quad \cos 60^\circ = \frac{1}{2}, \quad \tan 60^\circ = \sqrt{3}$$
 Missing side: 
$$a^2 = b^2 + c^2 - 2bc\cos A \qquad \sin 60^\circ = \frac{\sqrt{3}}{2}, \quad \cos 60^\circ = \frac{1}{2}, \quad \tan 60^\circ = \sqrt{3}$$

 $\sin 90^{\circ} = 1$ ,  $\cos 90^{\circ} = 0$ 

# Circle theorems

A is opposite a

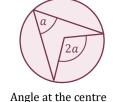
*B* is opposite *b* 

*C* is opposite *c* 



semicircle is 90°

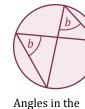
Angle in a



is double the angle

Circumference of circle =  $\pi \times D$  Area of triangle =  $\frac{1}{2}ab\sin C$ 

at the circumference are equal



same segment



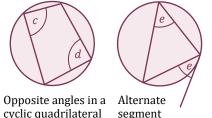


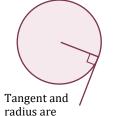
cyclic quadrilateral

total 180°



theorem



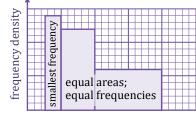


G16, G17, G18, G23

frustum

have the same area. perpendicular

Histograms



Percentages: multipliers R9, R16

Percentage increase or decrease; use

→ Initially there were 20 000 fish in a lake. The number decreases by

 $20\ 000 \times 0.85^6 = 7\ 500\ (2sf)$ 

Total accrued =  $P\left(1 + \frac{r}{100}\right)$ 

→ I invest £600 at 3% compound

interest. What is my account worth

ter 5 years? £600 ×  $\left(1 + \frac{3}{100}\right)^5$  = £695.56

Direct & inverse proportion R10

 $\rightarrow$  b is directly proportional to  $a^2$ ;

 $90 = k \times 6^2$  so  $k = 2.5, b = 2.5a^2$ 

 $b = 2.5 \times 8^2 = 160$ 

a = 6 when b = 90. Find b if a = 8.

 $b = ka^2$ ; a = 6 and b = 90 for k;

y is inversely proportional to x:

yx = k or  $y = \frac{k}{x}$  for a constant k

Multiply for independent events

→ P(6 on dice and H on coin)

Add for mutually exclusive events

Apply these rules to tree diagrams.

P(A or B) = P(A) + P(B) - P(A and B)

multiplied by class width. This means

 $P(A \text{ and } B) = P(A \text{ given } B) \times P(B)$ 

Frequency = frequency density

that bars with the same frequency

⇒ P(5 or 6 on dice)  $\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$ 

 $\frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$ 

*y* is directly proportional to *x*:

y = kx for a constant k

a multiplier (powers for repetition)

15% each year. Estimate the

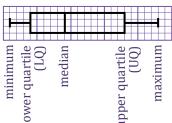
number of fish after 6 years.

Formula for compound interest

after 5 years?

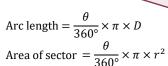
# Box plots

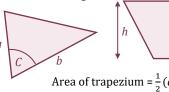
Interquartile range (IQR) = UQ - LQ

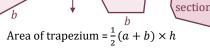


# Areas and volumes

Area of circle =  $\pi \times r^2$ 







Volume of prism = area of cross section × length

Volume of cone =  $\frac{1}{2}\pi r^2 h$ Volume of frustum is difference between the volumes of two cones Similar shapes

# Transformations

Reflection Translation

Vector

Rotation • Line of reflection • Centre of rotation

> Angle of rotation • Clockwise or anticlockwise the shape will get smaller).

Enlargement

 Centre of enlargement • Scale factor (if -1 < SF < 1

Ratios in similar shapes and solids: • Length/perimeter 1:*n* a: b

 $a^2$ :  $b^2$ Area  $1:n^{2}$  Volume  $1:n^{3}$  $a^3:b^3$ 

# **Music Composition Knowledge Organiser**

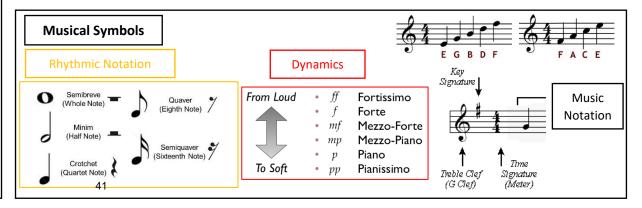






Steps to create your own composition			
Be able to generate musical ideas from starting points			
Generating	Pitches, rhythms, chords, harmonic systems,		
material themes, texts, images.			
Musical	Hooks and riffs, melodic ideas, rhythmic		
starting points	pattern, chord progressions, sound pallets.		
Working to a	Interpreting a brief and devising appropriate		
brief	musical ideas.		
Know how	to extend, develop and manipulate musical		
	material		
Extending and	Repetition, decoration, variation, sequence		
developing an	and contrast.		
idea			
Manipulating	Transposition, transformations (inversion,		
techniques	retrograde, retrograde inversion) and		
	processes (canon, phrasing, addition,		
	subtraction, augmentation, diminution,		
	displacement).		
Working with	Instrumentation, textures, contrasts.		
layers			
	musical material into completed compositions		
Form and	Binary, ternary, rondo, arch, ground bass,		
structure	introductions, codas, song structures, 12-bar		
	blues, effective use of repetition and contrast.		
Pace	Maintaining momentum, contrasts, balancing		
	repetition and change.		
Be able	to present compositions appropriately		
Appropriate	Conventions of particular styles, genres and		
presentation	scores		
methods			
Type of score	Full score, lead sheet, chord chart, relevant		
	computer software.		

Musical Element	Definition	Examples
Dynamics	The volume of a piece of music.	piano, forte, crescendo and diminuendo.
Rhythm	The pattern of beats.	Semibreve, minim, crotchet, quaver, semiquaver, rests, broken chords, triplets.
Pitch	The intervals between different notes.	High, low, ascending, descending, stepwise
Structure	The sections that make up the music.	Binary, ternary, rondo, arch, ground bass, introduction, codas, 12-bar blues,
Melody	The main tune	Scalic, passing note, repetition, phrases, ostinato
Instrumentation	The different instruments used within the music.	Orchestra, pop band, chamber band, choir, duet, trio.
Texture	The different layers within the music.	Monophonic, homophonic, polyphonic, melody and accompaniment.
Tonality	The key the music is in	Major, minor, modal, chromatic.
Tempo	The speed of the music.	Allegro, Adagio, Andante, Largo, Presto
Timbre	The sound quality of each instrument.	Deep, light, clear, dark
Harmony	The way the notes sound together.	Chords, added note chords, inversions, transpositions.



# WCT 1650-1910: Wolfgang Amadeus Mozart 27th Jan 1756 - 5th Dec 1791 Clarinet Concerto in A Mvt III Rondo (For Anton Stadler: Friend and Virtuosic Clarinettist)

Key terms		Rudiments/Chords				
1. (H) Tonic	I degree of a scale (In A = A)	1. Staccato	To play short and sharp			
2. (H) Dominant	V degree of a scale (In A = E)	2. Legato	To play smoothly			
3. (H) Sub-dominant	IV degree of a scale (In A = D)	3. Trill	Rapid alternation of two adjacent notes			
4. (H) Tonic Pedal	A repeated note in the bass on the tonic	4. Sforzando piano	An accented note, directly followed by a decrease in volume			
5. (H) Harmonic Flux	Extended use of falling chromatics	5. lb: F#m	Tonic in F# first inversion (A C# F#)			
6. (H) Dominant Key	E Major (4#'s - F, C, G, D)	6. Ic: A Tonic in A second inversion (E A C# E)				
7. (H) Relative Minor Key	F# minor (3#'s - F, C, G)	7. V7d: F#m Dominant 7th in F# third inversion (B C# E# G#)				
8. (H) Sub-dominant Key	D Major (2#'s - F, C)	8. Dominant 7th with a flattened 9th: A				
9. (H) Inversion	Notes of a chord in a different order	9. Diminished 7th: (D#) D# F# A C				
10. (H) Discord	Lack of harmony between notes	10. Neapolitan 6th A chord built on the flattened sixth of a scale (A = F)				
11. (I) Quintet	Five instrument ensemble	11 & 6	6 8 Time signature, six quaver beats in a bar			
12. (I) Contrabasso	Double bass		ucture - Rondo Form			
13. (I) Orchestral Instrument Omissions	Oboes, trumpets and timpani	1. A - Rondo Theme	b.1-56 - Tonic: A Major			
14. (I) Fagotti	Bassoon	2. B - First Episode	b. 57-113 - Tonic: A Major (Contrasting section)			
15. (M) Basset Horn (Clarinet in F) - Transposition	Sounds a fifth lower (C = F)	3. A - First return of Rondo Theme b. 114-137 - Tonic: A Major				
16. (M) Chalumeau register	Lowest register (written) Low E - B above middle C	4. C - Second Episode	b. 138-246 - Relative Minor: F# minor			
17. (M) Clarion register	Middle register (written) B above middle C - C two octaves above	5. A - Final return of Rondo Theme b. 247-300 - Tonic: A Major				
18. (M) Altissimo register	Top register (written) notes above the C two octaves above middle C	6. Coda b.301-353 - Tonic: A Major (Concluding section)				
19. (M) Horns in A - Transposition	Sound a minor third below written pitch (C = A)		Practical			
20. (M) Clarinet in A - Transposition	Sounds a minor third below written pitch (D = B)	1. K622 Key	A Major (3#'s - F, C, G)			
21. (M) Theme	A recognisable melody/motif	2. Theme				
22. (M) Chromatic	A non-diatonic note					
23. (M) Two bar balanced phrase	A complete musical idea lasting two bars	3. Episode 1				
24. (M) Sequence	A restatement of the melody at a higher/lower pitch					
25. (R) Compound time	Time signatures where the top number is divisible by three					
26. (R) Anacrusis	Unstressed note before the bar-line/downbeat	4. Episode 2				
27. (R) Syncopation	Stressing a normally unaccented beat					
28. (T) Chamber feel	Strings only					
29. (T) Tutti	All play together	5. Episode 1 Minor				
30. (T) Antiphonal	Music played by alternating sections of an ensemble	VIn.				



pero = but

o/u = or

si = if

también = also

como = as, like

cuando = when

donde = where

aún si = even if

por fin = finally

pues = then, later

por ejemplo = for example

que = that, which, who

a pesar de = in spite of

quizás = maybe / perhaps

por lo tanto - therefore

ya que = since / given that

además = additionally / furthermore

por eso = therefore (for that reason)

a causa de = because of

aunque = although

sin embargo = however

# SPANISH KNOWLEDGE ORGANISER 3

# **Exclamations**

Connectives **Opinions phrases** Pienso que - I think that y ( e before i/hi ) = and Siento que - I feel that porque = because

Creo que - I believe that Me parece que - It seems to me that En mi opinión - In my opinion Según yo - according to me

A mi modo de ver - In my opinion Me qusta(n) - I like No me gusta(n) – I don't like  $Me\ encanta(n) - I$  love

Odio - I hate Me interesa(n) – I'm interested in Consider o que – I consider / think that

Me gustaría – I would like Prefiero - I prefer

Sé que – I know that Questions Who? ¿Quién?

What? ¿Qué? ¿Dónde? Where? Why? ¿Por qué? ¿Cuándo? When?

¿Cómo? How? ¿Cuánto/a? How much? antes de + infinitive = before ing ¿Cuántos/as? How many? después de + infinitive = after ing ¿Cuál? Which?

¿De dónde?

así que = therefore / so ¿Quiénes? Who? *aún* = even ¿Cuáles? Which (ones)? lo primero ( de todo) = first ( of all ) ¿A quién? To whom? mientras = whilst ¿De quién? From whom? o...o... = either ... or... ¿Con quién? With whom? *ni... ni...* = neither... nor... ¿A dónde? To where?

1. iQué lástima! What a shame!

¡Qué problema! What a problem! 3. iOué vista! What a view!

4. ¡Qué bonita! How cute! *¡Qué difícil!* How difficult! ¡Qué aburrido! How tedious / boring!

7. iQué raro! How odd! ¡Qué extraño! How strange! 8. ¡Qué interesante! How interesting!

**Comparisons** 

7. más...

1. mejor que ... better than... 2. peor que.. worse than.. older than... 3. mayor que... menor que... younger than...

el/la mejor... the best el/la peor... the worst

8. menos... less... 9. más ... que more ... than 10. menos ... que less ... than

more...

11. tan ... como... as ... as ... 12. tanto ... como... as much/many... as

Quantifiers

alaunos/as de = some

mucho/a/os/as = a lot

un poco/a = a little

un par de = a pair of

*la mayoría de* = most

*la mitad de* = half of

el resto de = the rest of

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From where?

demasiado/a/os/as = too

bastante/s = enough / quite

poner – to put comprar – to buy

volver - to return

no..nunca = never

**Key Verbs** 

dar – to give

estar – to be

hacer – to do

ir – to go

ser – to be

deber - to have to

hacerse- to become

hay – there is/are

poder – to be able

querer – to want

soler - to usually

tener – to have

jugar = to play

comer – to eat

escuchar – to

vivir – to live

salir – to go out

hablar – to speak

listen

ver - to see

**Negatives** 

no...nada = nothing

*no...jamás* = never, ever

no...tampoco = neither

no...nadie = nobody

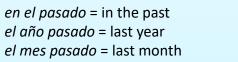
ningún/o/a/os/as = no/none

# **SPANISH Y11 Knowledge Organiser 3**

# **Time phrases**

# **Past Tense Cheat Sheet**

# **Future Tense Cheat Sheet**



Fui = I wentFuimos = we went

Voy a ir.... = I am going to go... Vamos a ir ... = We are going to go...

el fin de semana pasado = last weekend ayer = yesterday hace años = \_ years ago

Era / no era...= It was / it wasn't ... *Tenía* ... = It had ... Había ... = There were...

Seré = I will be *Iré* = I will go

haré = I will do jugaré = I will play *viajaré* = I will travel

hace \_\_\_\_ meses = \_\_\_ months ago

Fui a = 1 went to

Viajé en ... = I travelled by...

Va a ser ...= It is going to be... (no) será = It will (not) be

Empezaré = I will begin

*Tendré* = I will have

Tendrá = It will have

este año = this year este fin de semana = this weekend este mes = this month

Pasé una semana = I stayed a week Vi lugares de interés = I visited places of interest

Me alojé en / Me quedé en = I stayed in

El vuelo duró... = The flight lasted ...

Conocí a mucho gente = I met lots of people Fui de excursión = I went on a trip.

Comeré = I will eat Intentaré = I will try

hov = todavpor la mañana = in the morning por la tarde = in the afternoon por la noche = at night

Lo pasé (muy) bien = It was (very) good Lo pasé fenomenal = It was wonderful Lo pasé quay = It was great Lo pasé mal = It was rubbish

Lo pasé fatal= It was horrible

Lo mejor era que ... = The best thing was that... Lo peor era que ... = The worst thing was that...

Vamos a ver = we are going to watch Voy a salir con... = I am going to go out with... Voy a disfutar de unas vistas espléndidas = I am going to enjoy some splendid views.

Voy a conocer a mucho gente = I'm going to meet lots of people

Va a ser una tragedia = it's going to be a tragedy Voy a ir de excursión = i am going to go on a trip

vivia = I used to live Comía = I used to eat

me gustaría = I would like

Imperfect tense ( I used to...) tenía = I used to have

estudiaba = I used to study

bebía = I used to drink trabajaba = I used to work

compraría = I would buy

hablaría = I would talk

The conditional Tense podría = I could podríamos = we could

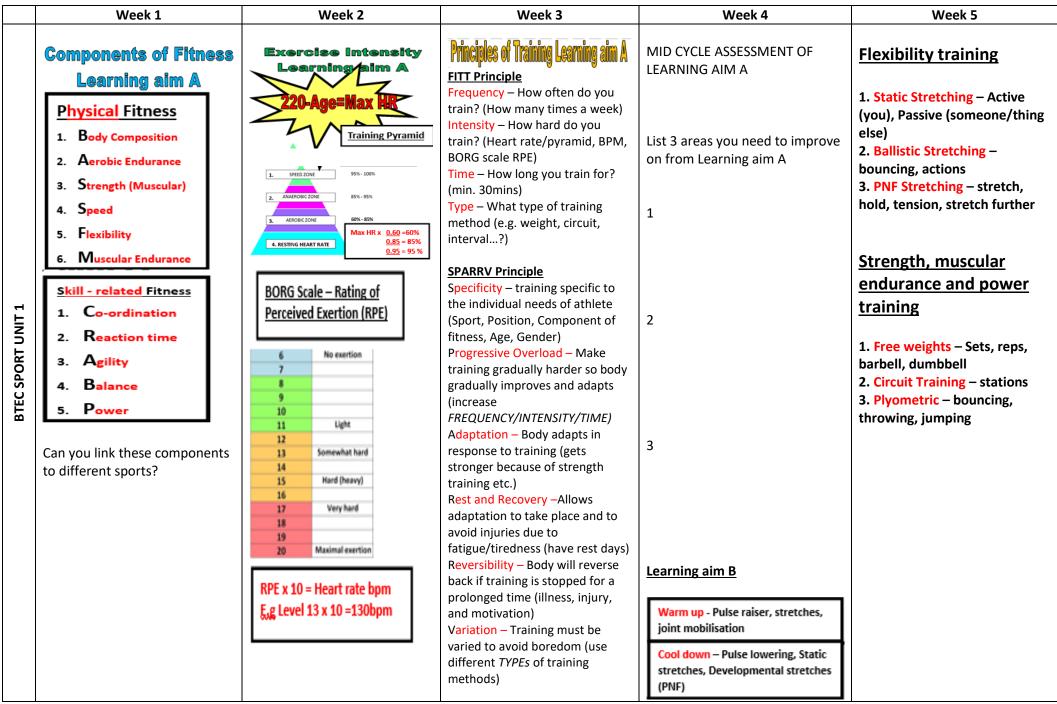
comería = I would eat haría = I would do *bebería* = I would drink

# The perfect tense

he visitado = I have visited he decidido = I have decided4 he cambiado = I have changed hemos decidido = we've decided hemos visitado = we've visited hemos cambiado = we've changed

una vez por semana = once a week dos veces por semana = twice a week todos los días = every day *luego* = then desde hace = since siempre = always *nunca* = never a (las ocho) = at (8 o'clock) en el futuro = in the future el año que viene – next year el mes que viene - next month mañana = tomorrow el verano que viene = next summer

el invierno que viene = next winter



	Week 6	Week 7	Week 8	Week 9	Week 10
			Muscular Endurance	Agility	Body Composition
	Aerobic Endurance MID CYCLE	MID CYCLE ASSESSMENT OF	Sit up and press up tests  Count how many sit ups or press-ups completed in 1 minute  ✓ Quick and easy ✓ Little equipment ✓ Large groups at once ➢ Arguments of correct technique can affect results  Power  Vertical Jump test  Stand side on to wall reach up and mark/set the measure. Standing jump as high as possible touching wall. Measure between two marks/measures ✓ Quick and easy ➢ Technique can affect result as need to jump and mark wall	Illinois Agility test	Body Mass Index (BMI)
	Training	LEARNING AIM A		<ul> <li>✓ Cheap and easy to conduct</li> <li>➢ Human error with timing can affect results</li> <li>➢ Weather or surface conditions can affect results</li> <li>Speed         35m sprint test         Sprint from one line/cone to another in a straight line over 35m. Record time and compare to normative data</li> <li>✓ Little equipment so cheap to run</li> <li>➢ Human error when timing can affect results</li> </ul>	Height (m) x Height (m)  Easy to carry out  Results can be misleading as muscles weighs more than fat  Bioelectrical Impedance Analysis (BIA)  BIA = electricity passed through body from WRIST to ANKLE. Measures the
	<ol> <li>Continuous training – non-stop 30 mins</li> <li>Fartlek Training – 'Speed play', slow, medium, fast/different terrain</li> <li>Interval Training – work, rest, work, rest</li> </ol>	List 3 areas you need to improve on from Learning aim A			
	Speed Training  1. Hollow Sprint - broken up by	2			<ul><li>✓ Quick and gives instant results</li><li>✓ Can be repeated over time with no bad effects</li></ul>
	hollow' lower level work  Acceleration Sprints - ogging to striding and finally o sprinting at maximum peed.  Interval Training — work, est, work, rest	Strength Grip dynamometer  3 attempts, squeeze grip dynamometer measure result in Kg or KgW. ✓ Simple and easy test ✓ Lots of normative data ➢ Must be adjusted for hand size which may affect results Flexibility	Multi Stage Fitness Test (MST/Bleep test) Cones/Lines 20m apart, run in-between to the sound of a beep. Gradually gets faster. Longer you can keep up the higher the level ✓ Can test a large group at once ✓ Tests to maximum effort ➢ Practice can affect score ➢ If outside environment may affect	Sum of Skinfolds  Use CALLIPERS to measure skin on the BICEP, TRICEP, SHOULDER BLADE and HIP. Add measurements together and use to the JACKSON-POLLOCK nomogram (4 lines)  Provides accurate percentages of body fat  Needs specialist equipment  Problems with people revealing	
		Learning aim C Why are tests important?  Pre-test procedures:  Consent  Calibration of equipment  Accurate measurements and recording results  Reliability, validity and practicality	Sit and Reach test  Both feet against the sit and reach box, reach forward and measure result in centimetres  Well known test  Quick and easy to perform  measures lower back & hamstrings only  length of arms and legs affect results	Forestry Step Test Step/ bench- 33cm for females and 40cm for males. Step up and down for 5 minutes to a metronome.  (90bpm/22.5steps a min). Record pulse and compare to table ✓ Low cost ✓ Can be performed inside or outside ✓ Can test on your own ➤ People may struggle to keep with the stepping pace on metronome	bare skin