Oaklands School

Science home learning

Year 7- Most able

Have fun having a go at the activities inside this pack on acids and alkalis.

We really hope you have fun doing some of these activities!

The Science Team ☺

Hazard symbols

Many items contain acids and alkalis and they have hazard warning labels.
Draw 4 pictures of hazard symbols you find on everyday items for example this

hazard symbol is on a deodorant can.

Copper coin experiment

1. A dirty copper coin is found.

2. Coke is put in a glass.

3. The coin is added into the coke. Draw what you think might happen.

The coin goes shiny. Was your idea correct?

Corrosive materials

Some drinks like coke are acidic and are corrosive.
This symbols means corrosive.

Draw what safety equipment we should wear to keep ourselves safe when handling corrosive items.

pH Scale

Look at this pH scale

	pH	Examples
Very Acidic	1	Stomach acid
	2	Lemon juice
	3	Vinegar
	4	Tomato juice
	5	Black coffee
Slightly Acidic	6	Saliva
Neutral	7	Pure water
Slightly Alkaline	8	Sea water
	9	Baking powder
	10	Soap
	11	Ammonia
	12	Bleach
	13	Oven cleaner
Very Alkaline	14	Drain cleaner

pH scale

Answer these questions about the pH scale,

1. What pH number is stomach acid?

2. Can you write down two substances that are very alkaline?

3. What colour is neutral?

4. Can you name two alkaline substances?

5. Why should we be careful when handling acids and alkalis?

Just for Fun!

Can you find all the words in the word search?

Acids and Alkalis

S	N	N	N	E	U	T	R	A	L	A	C	I	D
N	D	A	S	A	L	T	M	P	N	O	M	E	L
I	I	I	A	M	M	O	N	I	A	M	U	A	I
R	U	O	L	O	C	R	P	E	E	I	I	E	A
H	B	N	R	C	O	L	L	U	F	M	R	A	H
C	A	R	B	O	N	D	I	O	X	I	D	E	Y
T	P	N	B	R	B	H	A	N	O	R	A	I	N
U	R	E	O	R	L	R	E	D	O	L	I	O	S
L	A	G	Y	O	U	I	L	F	L	I	M	U	D
L	L	O	O	S	E	E	A	T	E	I	O	R	E
O	K	R	W	I	N	O	I	T	A	R	T	I	T
L	A	D	T	V	R	S	S	L	I	T	M	U	S
M	L	Y	T	E	F	A	S	R	E	T	A	W	O
N	I	H	A	C	I	R	U	H	P	L	U	S	S

CORROSIVE
ACID
CARBON DIOXIDE
COLOUR
SULPHURIC
SOIL
HARMFUL
TITRATION
LEMON
NEUTRAL
RED
AMMONIA
LITMUS
SAFETY
RAIN
HYDROGEN
SALT
WATER
ALKALI
BLUE