

# Computing

Sept 2021-22

Aim	Further Details	Lead person	Dates	Resource Implications		Progress (fill in blocks)			
				General	Financial	started	½ complete	Nearly complete	completed
Continue to develop subject knowledge in teaching staff through additional CPD.	<p>Purple Mash scheme of work provides in-house training for staff.</p> <p>Use both informal and formal monitoring to assess and mentor staff, particularly those who have had little experience using the scheme of work and/or teaching Computing.</p>	Jonathan Allcock	Sept 2021 - May 2022	Subscription to Purple Mash Scheme of work.	£450	X			
Update our roster of Digital Leaders.	Digital Leaders are responsible for promoting Computing across the school. As many of these have now moved to high school, new recruits will be needed. This group will primarily focus on providing up-to-date tutorials for both teachers and children.	Jonathan Allcock Ann Zaidi	Sept 2021 - May 2022	Subscriptions to digital leader training platforms. This will not be needed to continue after the current subscription expires.	N/A	X			
Make use of the school social media platforms to promote outstanding Computing.	Using the Kings Road YouTube account, provide blogs and tutorials to promote the three strands of Computing.	Jonathan Allcock Digital Leaders	Sept 2021 - May 2022	YouTube Twitter ClassDojo	N/A	X			

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Update technology	Ensure that the ICT budget is used effectively to ensure that all areas of the Computing LTP can be covered in both unplugged and plugged formats.	Jonathan Allcock Ann Zaidi	Sept 2021 - May 2022	Microphones Headphones Drawing Tablets Tablets Apps	£1000	X			
Update technology for cross-curricular study	Audit current tech and assess what is needed to ensure that ICT can be used across the curriculum. Update where necessary.	Jonathan Allcock Ann Zaidi	Sept 2021 - May 2022	As above	As above	X			
Expand Coding Club	Due to restrictions Coding Club was not implemented fully last year. This year Coding Club will be expanded to as many year groups as possible, including digital leaders who will be mentored to lead the sessions.	Jonathan Allcock	Sept 2021 - May 2022	Permission slips Google Forms	N/A	X			
Provide Cultural Capital across KS2.	Now that it is permitted, school trips and VR sessions will be a priority for KS2 children, allowing them to experience first hand how technology is used in workplaces such as the Amazon warehouses and coding is a fundamental skill.	Jonathan Allcock	Sept 2021 - May 2022	Permission slips Google Forms	£500	X			

# Next Steps

This part of the action plan is to consider future impacts and strategy which should be considered. This is in brief detail and may change in light of circumstance and/or change of strategy.

<b>2020 - 2021 (2<sup>nd</sup> Year of Action Plan)</b>	
<b><u>Aim</u></b>	<b><u>Associated Information</u></b>
Provide CPD for cross-curricular ICT lessons, particularly using mathematics.	Develop an understanding through CPD of how ICT can be used in a cross-curricular way, other than the primary example of word-processing. Training to be provided to utilise coding in the teaching of mathematics.
Increase the number of programming languages taught in coding lessons.	In addition to 2Code, provide opportunities for teaching staff and children to access other programming languages including other block-based programming such as Scratch and text based such as Java Script.
Use hardware such as Raspberry Pi to improve teaching and learning related to hardware.	Upper KS2 should be taught to programme and understand how hardware works.

<b>2021-2022 (3<sup>rd</sup> Year of Action Plan)</b>	<b><u>Or Beyond</u></b>
<b><u>Aim</u></b>	<b><u>Associated Information</u></b>
Develop Digital Leader platform.	Add to the existing roster of digital leaders ensuring that each year group contains children who have a high level of understanding in relation to programming languages and internet safety.
Review impact of CPD sessions.	Continue to monitor pupil attainment and confidence levels within teaching staff.
<u>Provide opportunities for whole school events such as Mantle of the expert.</u>	Supplement the internet safety focus of SID with opportunities for whole school projects based upon the Digital Literacy and Information Technology strands.

**Vision Box**

**If money wasn't a barrier...**

<b><u>Idea</u></b>	<b><u>Other details</u></b>	<b><u>Cost</u></b>
Provide up-to-date technology to supplement plugged ICT.	Ipads or laptops for every classroom and every child. Embed word processing and ICT into more lessons in the classroom	£10,000+
Virtual Reality	Enable children to access VR in the classroom and visit historical and geographical concepts in a virtual environment.	£5000+
3D printing	Provide 3D printers and implement into the D.T. curriculum.	£1000+

**How healthy is this subject at Kings Road?**

The subject is good with some outstanding features. We have a strong scheme of work that is being implemented across all year groups. Learning ladders and a long term plan are in place and are being followed.

**How do you know?**

Discussion and analysis with SLT during Deep Dive.

What are the strengths? (How do you know?)

Scheme of work starting to be embedded through training.

Staff have a better understanding of technical vocabulary in programming.

More resources available through online platforms and unplugged coding.

Unplugged teaching is being implemented in both early years and KS1.

What are the areas for development?

Extend the teaching of programming into other languages.

Develop cultural capital within the subject.

How well is this subject taught at Kings Road?

Lessons are good with outstanding features and the scheme of work is used throughout the school. Children make very good progress in KS1 and the concepts are expanded upon in KS2.

How well is this subject learnt at Kings Road?

The children are enthusiastic for computing. They are keen to take part in clubs and computing sessions. The outcomes are good where the subject is taught through PM. ICT has been used effectively in both the classroom and through remote learning. A range of apps are used in the classroom and coding has become more focused due to the implementation of a consistent long term plan/learning ladders.