

# Standards ICT Importance Key Stage 3

## ICT Importance Statement

The increasing use of technology in all aspects of society makes confident, creative and productive use of ICT an essential skill for life. ICT capability encompasses not only the mastery of technical skills and techniques, but also the understanding to apply these skills purposefully, safely and responsibly in learning, everyday life and employment. ICT capability is fundamental to participation and engagement in modern society. ICT can be used to find, develop, analyse and present information, as well as to model situations and solve problems. ICT enables rapid access to ideas and experiences from a wide range of people, communities and cultures, and allows pupils to collaborate and exchange information on a wide scale. ICT acts as a powerful force for change in society and citizens should have an understanding of the social, ethical, legal and economic implications of its use, including how to use ICT safely and responsibly. Increased capability in the use of ICT supports initiative and independent learning, as pupils are able to make informed judgements about when and where to use ICT to enhance their learning and the quality of their work.

● Indicates standard is focused on    ○ Indicates standard is covered in a general way

Key Stage 3 ICT Programme of Study Statement Key Concepts		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
<b>1.1 Capability</b>								
1.	Using a range of ICT tools in a purposeful way to tackle questions, solve problems and create ideas and solutions of value.	●	●	●	●	●	●	●
2.	Exploring and using new ICT tools as they become available	●	●	●	●	●	●	●
3.	Applying ICT learning in a range of contexts and in other areas of learning, work and life	●	●	●	●	●	●	●
<b>1.3 Exploring ideas and manipulating information</b>								
1.	Solving problems creatively by using ICT to explore ideas and try alternatives	●	●	●	●	●	●	●
2.	Using ICT to model different scenarios, allowing people to identify patterns and test hypotheses.	●	●	●	●	●	●	●
3.	Manipulating information and processing large quantities of data efficiently	●	●	●	●	●	●	●
<b>1.5 Critical evaluation</b>								
2.	Reviewing and reflecting critically on what they and others produce using ICT	●	●	●	●	●	●	●

Key Stage 3 ICT Programme of Study Statement Key Processes		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
<b>2.1 Finding information</b>								
1.	Consider systematically the information needed to solve a problem, complete a task or answer a question, and explore how it will be used	●	●	●	●	●	●	●
3.	Collect and enter quantitative and qualitative information, checking its accuracy	●	●	●	●	●	●	●
<b>2.1 Developing ideas</b>								
1.	Select and use ICT tools and techniques appropriately, safely and efficiently	●	●	●	●	●	●	●
2.	Solve problems by developing, exploring and structuring information, and deriving new information for a particular purpose	●	●	●	●	●	●	●
3.	Test predictions and discover patterns and relationships, exploring, evaluating and developing models by changing their rules and values	●	●	●	●	●	●	●
5.	Use ICT to make things happen by planning, testing and modifying a sequence of instructions, recognising where a group of instructions needs repeating, and automating frequently used processes by constructing efficient procedures that are fit for purpose			●	●	●	●	●

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2.3 Communicating information								
1.	Use a range of ICT tools to present information in forms that are fit for purpose, meet audience needs and suit the content	●	●	●	●	●	●	●
3.	Use technical terms appropriately and correctly.	●	●	●	●	●	●	●
2.4 Evaluating								
1.	Review, modify and evaluate work as it progresses, reflecting critically and using feedback							●
2.	Reflect on their own and others' uses of ICT to help them develop and improve their ideas and the quality of their work							●
3.	Reflect on what they have learnt and use these insights to improve future work							●

Key Stage 3 ICT Programme of Study Statement <b>Range and Content</b>		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
1.	Use of a range of information, with different characteristics, structures and purposes, and evaluation of how it matches requirements and its fitness for purpose	●	●	●	●	●	●	●
2.	Use of a variety of information sources, including large data sets, in a range of contexts	●	●	●	●	●	●	●
3.	Use and review of the effectiveness of different ICT tools, including a range of software applications, in terms of meeting user needs and solving problems	●	●	●	●	●	●	●
4.	Developing an understanding of the need to:							
	Manage information organisation, storage and access to secure content and enable efficient retrieval	●	●	●	●	●	●	●
5.	The impact of ICT on individuals, communities and society, including the social, economic, legal and ethical implications of access to, and use of, ICT.							●

Key Stage 3 ICT Programme of Study Statement <b>Curriculum Opportunities</b>		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
In ways appropriate to the product area, the curriculum should provide opportunities for pupils to:								
4.	Apply ICT to real-world situations when solving problems and carrying out a range of tasks and enquiries	●	●	●	●	●	●	●
5.	Share their views and experiences of ICT, considering the range of its uses and its significance to individuals, communities and society							●
6.	Use ICT in other subjects and areas of learning with contexts that are relevant and interesting to them.	●	●	●	●	●	●	●