

Year 7 - Curriculum Guide for Computing 2022-2023

Subject Leader(s):

Tom Featherby – Head of Computing & Business (tom.featherby@jhanson.hants.sch.uk)

Outline Programme of Study

Term	Topic Title	Key Ideas/Concepts	Help from home	Home Learning & Assessment
Term 1	Baseline testing and Cyber Safety	Pupils complete an online survey of their online behaviors. Based on the response of the pupils several lessons have been planned that can be delivered on using technology safely, respectfully, responsibly and securely. Pupils will go through several different scenarios of inappropriate content and learn how to report concerns.	<p>In order to promote e-safety parents should visit the following website:</p> <p>www.childnet.com www.nspcc.org.uk www.saferinternet.org.uk www.thinkyouknow.co.uk www.internetmatters.org</p> <p>There are a number of resources on this website to help parents understand E-Safety. Parents should also consider changing parental security settings on personal devices used within the home and encourage pupils to keep all social media pages as secure as possible.</p>	We do not set home learning for year 7 to help support the transition from primary school to secondary
Term 2	Modelling	Use Microsoft Excel to create data models using basic formula and functions. Pupils will learn how to test predictions and discover patterns and	Parents can help students by encouraging them to use the software if it is installed on home computers. Parents can improve their spreadsheet skills by	Students will complete bespoke home learning tasks that directly link to what is being covered in class. These may be completed on paper or through an online platform called Quizziz.

		<i>relationships, exploring, evaluating and developing models by changing their rules and values.</i>	<i>watching you tube tutorials & by visiting tutorial websites such as http://excelcentral.com/.</i> <i>All students will have access to excel through their office 365 account</i>	
<i>Term 3</i>	<i>Computer Systems</i>	<i>Pupils learn about inputs/outputs; parts of the computer; health and safety of using computers; wireless and wired networks; binary and how to decode binary into other forms of data</i>	<i>Parents can visit teach ICT and search information on computer systems. BBC bitesize which is a revision tool for GCSE students is also another fantastic resource to brush up on their computer systems knowledge.</i>	<i>Students will complete their home learning through Educake for this Module of work. They will be set two pieces throughout the term, usually week 2 & 4</i>
<i>Term 4 & 5</i>	<i>Small Basic</i>	<i>Pupils in year 7 will be introduced to basic programming using set instructions. Students will look at sequence of steps to allow a program to do something. They will be able to create simple programs using predesigned commands, they will be able to create their own more detailed commands, They will be able to modify/debug their work, they will be able to understand how sequencing of instructions work. They should be able to explain what a variable is and how simple algorithms work.</i>	<i>Small basic is a free piece of software that can be downloaded from http://smallbasic.com/</i> <i>There are also a number of tutorials on the internet that students can use to practice their coding.</i>	<i>Students will complete bespoke home learning tasks that directly link to what is being covered in class. These may be completed on paper or through an online platform called Quizziz</i> <i>They will also be required to download small basic and practice the skills they have learnt in class at home</i>

<i>Term 5</i>	<i>Algorithms</i>	<i>Students will learn how to create and read algorithms. They will learn about the shapes needed to create a flowchart to outline a simple set of instructions.</i>	<i>Parents can help students by downloading flowol. They can also help students create flowcharts of simple tasks to show sequence of instructions.</i>	<i>Students will complete bespoke home learning tasks that directly link to what is being covered in class. These may be completed on paper or through an online platform called Quizziz</i>
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Other useful resources

www.idea.org.uk

www.codecademy.com

www.code.org

www.Khanacademy.org/cs

www.lynda.com

If you have any further questions please use the contact details at the top of the guide