

KS3 COMPUTING



Meadow Park
Patience, Guidance and Determination

Week 2

Week commencing- 07/09/20

Teacher instructions

You will find a series of four computing lessons for each year group from Year 7-9. Every lesson includes a short video showing you clearly and simply how to help your child to complete the activity successfully. Simply write the questions and answers in a book or on pieces of paper.

- 1- Click on the set of lessons for your child's year group.
- 2- Complete short quiz to test prior knowledge
- 3- Watch the video with your child.
- 4- Find a suitable space for your child to work. Try to allow opportunities for your child to complete these questions independently.

If your child is finding the work difficult, please select the year below to practise some of their skills.

Lesson 1

WEBSITE/LINK	TOPIC/THEME
Year 7- https://classroom.thenational.academy/lessons/get-in-gear-6wuket	In this first lesson about computing systems, you will focus on what sets these devices apart from other purpose-built machinery: it is their ability to execute programs that allows them to modify their operation and perform different tasks, and thus become our most versatile 'tool for thought'.
Year 8- https://classroom.thenational.academy/lessons/website-building-blocks-68v66e	We use web pages every day without questioning how they work. This lesson looks behind the curtain to help learners start to understand how web pages are constructed using HTML tags, and how they can be modified to display content as they wish.
Year 9- https://classroom.thenational.academy/lessons/features-of-a-word-processor-6cup8e	In this lesson, we will think about what software should be used for what particular purposes. Then, the lesson will focus on identifying the key features of a word processor. You will practice your skills by looking at a pre-made document that is poorly formatted and use tools to format the document.

Lesson 2

WEBSITE/LINK	TOPIC/THEME
Year 7- https://classroom.thenational.academy/lessons/under-the-hood-60t36r	Learners will discover how all computing systems, regardless of form or capabilities, make use of the same components: a processor, memory, storage, input and output devices, and communication components. They will form a simple, concise picture of what each of these 'universal' components does, and how they work together in order to execute programs.
Year 8- https://classroom.thenational.academy/lessons/words-are-not-enough-crv3jt	Words are not enough It is said that a picture paints a thousand words. Web pages that only use text are not going to be read for long on a screen. The use of images on web pages is important as it can bring them to life and help improve the reader's experience. Students will explore the structure and operation of the img tag and understand how they can be used to 'add' images to web pages.
Year 9- https://classroom.thenational.academy/lessons/licensing-appropriate-images-64u3ct	In this you will learn how to pick images that are suitable for the intended purpose, understand copyright issues when choosing images, and utilise features of a word processor to be able to format the images to fit within the work you started last lesson.

Teacher instructions	
<p>You will find a series of four computing lessons for each year group from Year 7-9. Every lesson includes a short video showing you clearly and simply how to help your child to complete the activity successfully. Simply write the questions and answers in a book or on pieces of paper.</p> <p>1- Click on the set of lessons for your child's year group. 2- Complete short quiz to test prior knowledge 3- Watch the video with your child. 4- Find a suitable space for your child to work. Try to allow opportunities for your child to complete these questions independently.</p> <p>If your child is finding the work difficult, please select the year below to practise some of their skills.</p>	
Lesson 1	
WEBSITE/LINK	TOPIC/THEME
<p>Year 7- https://classroom.thenational.academy/lessons/orchestra-conductor-74tkac</p>	<p>This lesson will introduce the operating system, which is responsible for managing the complexity of modern computing devices. Here, operating systems will serve as an additional bridge between theory and practice.</p>
<p>Year 8- https://classroom.thenational.academy/lessons/taking-shortcuts-6mu64r</p>	<p>Students will start to experiment with using CSS to format tags in a HTML document. They will then progress to apply their own formatting schemes to work that they have already created. As they become more experienced in the structure of CSS, students should look to extend their knowledge by researching the numerous attributes that can be controlled by CSS.</p>
<p>Year 9- https://classroom.thenational.academy/lessons/credibility-of-sources-6cu3gd</p>	<p>In this lesson you will learn to critically evaluate information online and you will become equipped with techniques to help you identify unreliable sources of information.</p>
Lesson 2	
WEBSITE/LINK	TOPIC/THEME
<p>Year 7- https://classroom.thenational.academy/lessons/its-only-logical-6xgpac</p>	<p>The goal of the lesson: to bridge the gap between logic and circuits, and make the direct link between them explicit. This is the last step in the learners' journey through the hierarchy of a computing system, from programs, to the hardware responsible for executing the programs, and now, to the fundamental components that comprise this hardware.</p>
<p>Year 8- https://classroom.thenational.academy/lessons/searching-the-web-75jp4c</p>	<p>Like artists, web developers create works of art that they want people to see. There is so much content on the World Wide Web, that making sure your web page stands out can be difficult. Consider how people get to web pages. The start of the journey is usually a search engine, which people use to search for a few keywords and pick something from the list. The problem is, that list usually contains millions of different pages.</p>
<p>Year 9- https://classroom.thenational.academy/lessons/researching-6wr64d</p>	<p>In this lesson, you will conduct and document research on the cause that you have chosen to support. You will learn about how to document and credit your sources to avoid plagiarism.</p>