

Scheme of Learning: Year 8 Computing

Topic Sequence:

1	2	3	4	5	6
Computer Systems	Representation	Developing for the Web	Intro to Python	Heroes of Computing	Mobile App

Topic Overview:

In this unit, learners will explore the technologies that make up the internet and World Wide Web. Starting with an exploration of the building blocks of the World Wide Web, HTML, and CSS, learners will investigate how websites are catalogued and organised for effective retrieval using search engines. By the end of the unit, learners will have a functioning website.

Links:

Year 7: Networks, Year 8: Mobile App, GCSE Computing Unit 4 - Networks

Lesson Sequence:

Lesson 1: Website building blocks - Learners will begin by considering the power of automation for repetitive tasks, before delving into some practical web page formatting activities using HTML tags. Firstly, they will practise formatting sections of text to improve readability. Learners will then modify tags to change their appearance in a document, to make them different from the defaults provided.

Lesson 2: Words are not enough - Learners will begin by recapping the important fundamentals of web page design, specifically the use of tags and their modification. They will explore the structure and operation of the img tag and understand how they can be used to 'add' images to web pages. To consolidate the learning of the first two lessons, they will also try to replicate a given web page design to see if they can use what they have learnt in the most effective way.

Lesson 3: Taking shortcuts - Learners will begin by recapping how formatting is controlled using inline HTML formatting. They will appreciate that this approach is time consuming and allows inconsistencies in design to manifest. Learners will start to experiment with using CSS to format tags in a HTML document. They will then progress on to applying their own formatting schemes to work they have already created.

Lesson 4: Searching the web - In this lesson, learners will consider how web pages are found and catalogued, ready for people to search for them. By considering how search engines find and rank web pages, they will learn how they can make their designs appear towards the top of search engine lists, so that more people will view what they have created.

Lesson 5: Tightening the web - In this lesson learners will investigate advanced search techniques. They will understand how search operators can be used to combine or exclude search terms to either expand or narrow search results. They will practice using these terms for specific purposes and then build on the work from the last lesson to create a new page that can be used to summarise their learning from this lesson.

Lesson 6: Navigating the web - In this lesson learners will begin by creating a web page to summarise their learning over the entire unit by creating an additional 'How to' web page, they will follow this up by adding navigation to all pages of the website.

National curriculum links

- Create, reuse, revise, and repurpose digital artefacts for a given audience, with attention to trustworthiness, design, and usability.

Sequence of Lessons:	
1	Website building blocks
2	Words are not enough
3	Taking shortcuts
4	Searching the web
5	Tightening the web
6	Navigating the web

Topic Resources:			
Knowledge Map:	8.3 Websites	Any other Resources:	
Assessment:			
Knowledge:	10 Multiple Choice Questions		
Application of Knowledge:	Learners make a website summarising their learning over the unit		
Supportive Reading:			
YouTube HTML Tutorial	KS3 Web design tutorial HTML Lesson 1 - YouTube		
BBC Bitesize	Using HTML to create websites - Internet and communication - KS3 Computer Science Revision - BBC Bitesize		
KS3 Computing Complete Revision & Practice - CGP	Chapter 2 Available from: KS3 Computing Complete Revision & Practice CGP Books		