

| SUBJECT | YEAR | TERM |
|---|---|------|
| COMPUTER SCIENCE | 7 | 4 |
| TOPIC | | |
| INTRODUCTION TO HTML | | |
| CONTENT (INTENT) | | |
| <p>PRIOR LEARNING (TOPIC) No previous learning is necessary with this unit. Basic IT skills such as finding images and sizing or cropping them to fit a given space, selecting and editing text will be useful. Pupils should be aware of image size and its relevance to speed of loading a web page containing images.</p> | | |
| <p>The unit is subdivided into three learning hours spread across three lessons. In the first lessons, pupils will learn the basics of HTML and CSS, and how to create a responsive design which adapts to any size of screen for viewing on, say, a mobile phone or a PC. They will learn how to create text styles and add content, including text and graphics, in a specified position on a page, as well as navigation links to other pages on their website and to external websites. The basics of good design are covered, and, with the help of worksheets, pupils will develop their own templates in an online text editor such as Replit.com.</p> | | |
| <p>FUTURE LEARNING (TOPIC): HTML & Website Development</p> | | |
| IMPLEMENTATION | | |
| KNOWLEDGE | SKILLS | |
| <p>At the end of this Unit all pupils should be able to:</p> <ul style="list-style-type: none"> Write HTML code to create a simple web page and display it in a browser Write CSS to define the styles used in a web page Create a simple navigation system using HTML Use a design to create a template for a web page using HTML Create their own multi-page website Insert text, images and links on their web pages <p>Most pupils will be able to:</p> <ul style="list-style-type: none"> Use a range of HTML tags to create well laid out web pages Write CSS code to define the styles of different parts of a web page Use HTML and CSS to create their web page template Use the template to design a multi-page website with a consistent look and feel to each page Use responsive design techniques in creating their website so that the web pages will adapt to any size of screen Create a simple web form to collect user data <p>Some pupils will be able to:</p> <ul style="list-style-type: none"> Add enhancements or additional features to the original basic design Construct a good-looking, well-formatted interactive website that is suitable for its intended audience | <p>Learning Skills: Synthesis: Pupils will bring ideas together and create solutions to staying safe online Problem solving: when deciding how to solve a problem and why?</p> <p>Life Skills: Collaboration: on complex moral and ethical issues in computing Resilience: when debugging code in a text-based language</p> <p>IT Skills: Software: Using integrated development environments (IDEs) to code programs</p> <p>Literacy Skills: Digital literacy: Coding using text-based languages Vocabulary: Learning new vocab and learning how it links to other subjects (variable and integer)</p> | |
| IMPACT | | |

Pupils will write and run a program each lesson using an online IDE and submit the link to the code via the VLE. Work will be marked via the VLE using a 9-1 grading system, along with feedback on how to improve and extend their skills. A final topic assessment will be a MQC set on the VLE.

New Computing at Schools (CAS) Attainment Targets (partially covered in this Unit)

- Use two or more programming languages, one of which is textual, to solve a variety of computational problems; make appropriate use of data structures; design and develop modular programs that use procedures and functions
- Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users

HOW CAN PARENTS HELP AT HOME?

Showing an interest in the topic is always the biggest help, as well as ensuring they are completing their homework to the highest effort standard. If lessons are missed, the VLE can be used to catch up with content. Pupils can practice their HTML skills at home using websites such as replit.com and w3schools.com. Parents can always join in and learn how to code too.

HELPFUL READING/FURTHER DISCUSSION

READING

CGP KS3 Computing Complete Revision & Practice
 Hodder Compute-IT: Student's Book 1 - Computing for KS3
 Smashing Magazine – A Complete Guide to HTML

Websites:

- Website for learning HTML: <https://www.codecademy.com/learn/learn-html>
- Website used for coding: <https://replit.com>
- Website used for tutorials: <https://www.w3schools.com/html/default.asp>
- Website to help theory: <https://www.bbc.co.uk/bitesize/guides/znkqn39/revision/8>

VOCABULARY

HTML, head, body, tags, attribute, property, CSS, inline, internal, embedded, external, style, element, text editor, web browser, navigation, responsive design, hyperlink, template

CAREERS

- Junior Developer
- Website Editor
- Social Media Manager
- Digital Marketing Coordinator
- Content Editor
- Content Producer
- Digital Production Coordinator
- Website Project Manager
- Website Support Specialist
- HTML and CSS Production Specialist
- Technical Virtual Assistant
- HTML Email Developer Jobs
- Email Marketing Specialist
- Entry-Level Front End Developer Jobs
- Entry-Level Web Developer
- Webmaster Jobs
- WordPress Developer

EXTRA SKILLS

- Communication
- Teamwork
- Leadership
- Problem-solving
- Time management
- Organisation
- Report Writing
- Software Skills

PROGRESSION

- Online tutorials
- Cyber competitions
- Coding clubs
- GCSE Computer Science
- A-level Computer Science
- University/Apprenticeship
- Work experience