KS3 CURRICULUM OVERVIEW   YEAR 7 Computer Science

Computer Science: Year 7

Topics being taught | **What you will be assessed on** | **How you can support at home**

Autumn Term

Impacts of Technology
- Hazards in the Computing Lab
- Email Etiquette
- Online Safety and Cyber Bullying
- Presenting to an Audience

Pre teach Key terminology Vocabulary

[Speaking and listening: Giving a presentation - BBC Teach](#)

OCTOBER 1/2 TERM

Using Media
- Software Applications
- Licensing Images and copyright.
- Credibility of Sources.
- Creating a blog

Pre teach Key terminology Vocabulary

[Tips for spotting fake news online - BBC Bitesize](#)

CHRISTMAS

Spring Term

Computer Networks
- What a computer network is
- Hardware needed for a computer network.
- Internet vs World Wide Web

Pre teach Key terminology Vocabulary

[What is a network? - Introduction to networks - KS3 Computer Science Revision - BBC Bitesize](#)

FEBRUARY 1/2 TERM

Introduction to Spreadsheets
- Formatting and Cell referencing
- Formulas and Functions.
- Primary and Secondary Research
- Analysing Data

Pre teach Key terminology Vocabulary

[How spreadsheets work - Spreadsheets - KS3 ICT Revision - BBC Bitesize](#)

EASTER

Summer Term

Scratch Programming
- Computational Thinking
- The 3 mains programming constructs, Sequence, Selection and Iteration.
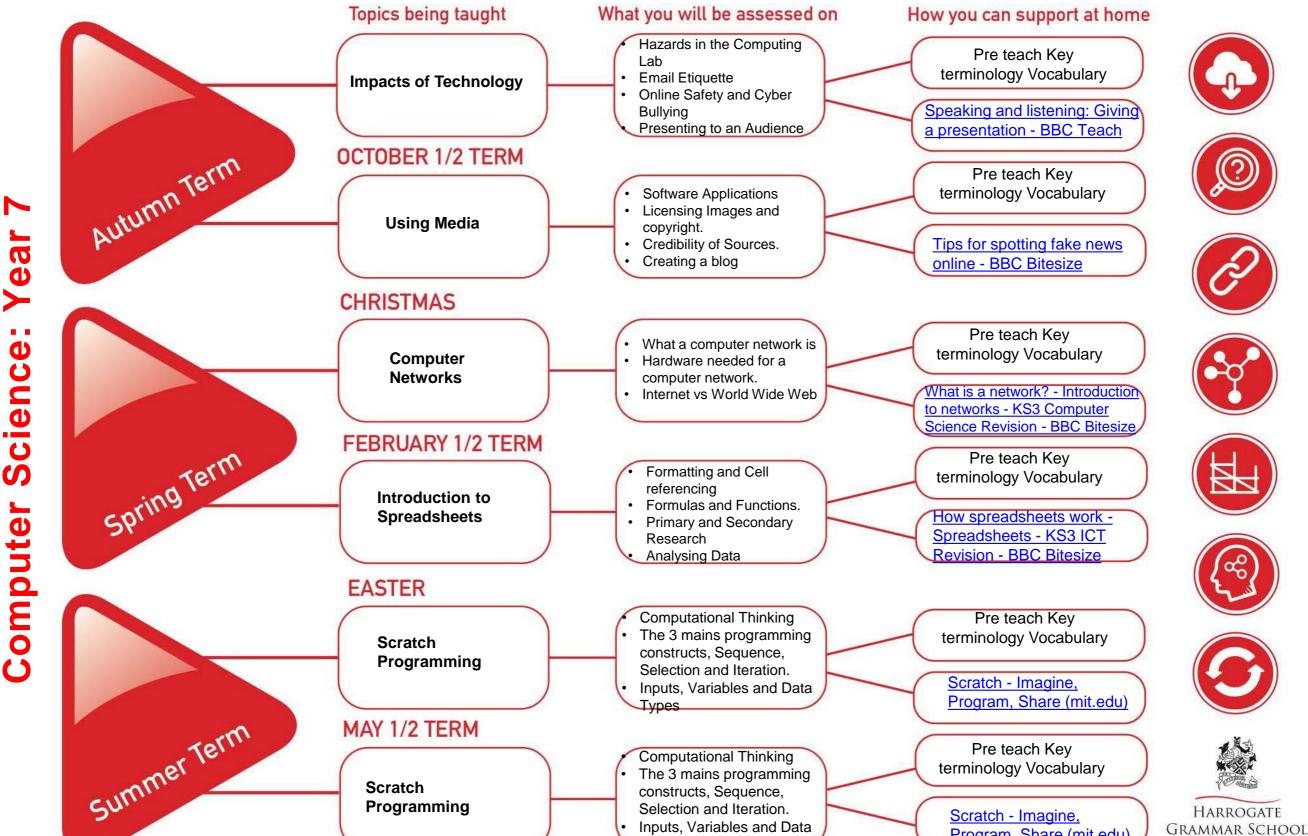- Inputs, Variables and Data Types

Pre teach Key terminology Vocabulary

[Scratch - Imagine, Program, Share (mit.edu)](#)

MAY 1/2 TERM

Scratch Programming
- Computational Thinking
- The 3 mains programming constructs, Sequence, Selection and Iteration.
- Inputs, Variables and Data Types

Pre teach Key terminology Vocabulary

[Scratch - Imagine, Program, Share (mit.edu)](#)

HARROGATE GRAMMAR SCHOOL
EXCELLENCE FOR ALL

Computer Science: Year 8

Topics being taught | What you will be assessed on | How you can support at home

AUTUMN TERM

Introduction to Computer Systems and Binary:

- What is a computer system and the key components.
- Hardware and Software
- Binary Conversions
- Understanding Artificial Intelligence

Pre teach key vocabulary set at the start of the topic. Practice binary conversions
Binary Game (cisco.com)
Understanding Computers:
KS3 Computer Science - BBC Bitesize

SPRING TERM

Edublocks and Python

- Computational Thinking
- The 3 mains programming constructs, Sequence, Selection and Iteration.
- Inputs, Variables and Data Types

Pre teach key vocabulary set at the start of the topic. Practice your coding skills, EduBlocks and Python

SUMMER TERM

Web technologies: Introduction to HTML

- What a web browser, search engine and website are.
- Mini project: creating a website using, images, texts, hyperlinks, tables and formatting techniques.

Pre teach key vocabulary set at the start of the topic. Practice your HTML Coding skills:
EduBlocks

HARROGATE GRAMMAR SCHOOL
EXCELLENCE FOR ALL

Computer Science: Year 9

Topics being taught

What you will be assessed on

How you can support at home

AUTUMN TERM

Cyber Security

- Different Forms of Online Attacks.
- How to protect Data
- Legal Legislation

Pre teaching key vocabulary at the start of the topic.

Reading The Hacker News | #1 Trusted Cybersecurity News Site

SPRING TERM

Text Based: Python Programming

- Computational Thinking
- The 3 mains programming constructs, Sequence, Selection and Iteration.
- Inputs, Variables and Data Types

Pre teaching key vocabulary at the start of the topic.

Python Tutorial (w3schools.com)

SUMMER TERM

Mobile App Development

- Computational Thinking.
- Understanding Success Criteria.
- Developing an APP to meet success criteria

Pre teaching key vocabulary at the start of the topic.

Code.org

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