

## TOPICS

### Computing

**How Computers Work** - Students learn about what is inside a computer, covering aspects such as CPU, RAM and Storage. Learn about software and hardware including Operating systems.

**Data Representation** - Students learn how Binary is used to represent data and control systems. How data is processed to create information.

**Programming** - Students use HTML programming tools to create websites and the use of Python to create an interface.

### Digital Citizenship

Students learn that they need to be responsible when using social networks, technology and other online tools. Understand the possible dangers they may face online. Understand the impact ICT has on the world around them. Setting up a database to store, query and report information. Using spreadsheets to analyse costs for everyday use.

### Digital Creativity

Students learn to consider audience and purpose when designing and creating digital products. Learn how to effectively edit, repurpose and combine digital elements. Learn the importance of self and peer evaluation.

## ASSESSMENT

## WHEN

BASELINE ASSESSMENT TRANSITION FROM YEAR 6 TO YEAR 7	AUTUMN TERM 1
STUDENT TEACHER ASSESSMENT AND TARGET SETTING	AUTUMN TERM 1
STUDENT SELF REVIEW AND TEACHER ASSESSMENT	AUTUMN TERM 2
STUDENT TEACHER ASSESSMENT AND TARGET SETTING	SPRING TERM 1
STUDENT SELF REVIEW AND TEACHER ASSESSMENT	SPRING TERM 2
STUDENT ICTAC SELF EVALUATION	SPRING TERM 2
STUDENT SELF REVIEW AND TEACHER ASSESSMENT	SUMMER TERM 1
STUDENT SELF REVIEW AND TEACHER ASSESSMENT	SUMMER TERM 2
END OF YEAR ASSESSMENT AND TARGET SETTING	SUMMER TERM 2
ASSESSMENT - TRANSITION FROM YEAR 7 TO YEAR 8	SUMMER TERM 2

## SCHEME OF WORK/TOPICS

## DURING

BEGINNING OF YEAR ASSESSMENT	AUTUMN TERM 1
COMPUTING	AUTUMN TERM 1
COMPUTING AND DIGITAL CITIZENSHIP	AUTUMN TERM 2
END OF TERM SELF EVALUATION	AUTUMN TERM 2
DIGITAL CITIZENSHIP	SPRING TERM 1
DIGITAL CREATIVITY	SPRING TERM 2
EVALUATION OF ICT ACROSS CURRICULUM USE	SPRING TERM 2
COMPUTING	SUMMER TERM 1
DIGITAL CITIZENSHIP	SUMMER TERM 2
END OF TERM SELF EVALUATION	SUMMER TERM 2

## OTHER INFORMATION

**Computing** - For students who are passionate about IT and related fields we recommend they explore online learning resources such as "Codecademy", "Code Avengers" or "Khan Academy". They offer a wide range of tutorials which help learners progress with more advanced programming environments. Many applications are available online and we encourage students to explore topics independently in their own time.

**Digital Literacy** - Students learn the theory and practice for creative and computing topics which are important for 21st Century learners and workers. These are available free via our online resources via the schools Microsoft Office account.

**Digital Citizenship** - We conduct assemblies every year regarding E-safety, highlighting elements of this with other schools during Internet Safety week in February.

If you have any queries regarding Computing or E-safety issues please contact us.

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