



Subject: Computing Year 8

Overview

Our year 8 computing curriculum is structured in units, using the Teach Computing Curriculum. It incorporates the National Centre for Computing Education's computing taxonomy to ensure comprehensive coverage of the subject with units building on each other from one key stage to the next.

Autumn

Autumn Term 1

Vector graphics

- Get into shapes
- Working with multiple objects
- Paths
- What will you make?
- Behind the scenes
- Showcase

Autumn Term 2

Computing systems

- Get in gear
- Under the hood
- Orchestra conductor
- It's only logical
- Thinking machines
- Sharing

Assessment:

Formative assessment opportunities are provided throughout each lesson.

Summative assessment through multiple choice quizzes.

Spring

Spring Term 1

Developing for the web

- Website building blocks
- Words are not enough
- Taking shortcuts
- Searching the web
- Tightening the web
- Navigating the web

Spring Term 2

Representations: from clay to silicon

- Across time and space
- Lights and drums
- Binary digits
- Numbers in binary
- Large quantities
- Turing's mug

Assessment:

Formative assessment opportunities are provided throughout each lesson.

Summative assessment through multiple choice quizzes.

Summer

Summer Term 1

Mobile app development

- App for that
- Tappy Tap App
- School Lab Studios
- User input
- App development
- Project completion

Summer Term 2

Intro to Python programming

- First steps
- Crunching numbers
- At a crossroads
- More branches
- Round and round
- Putting it all together

Assessment:

Formative assessment opportunities are provided throughout each lesson.

Summative assessment through multiple choice quizzes.