

## YEAR 8 LEARNING JOURNEY INFORMATION

# COMPUTING

### Computing Systems



Autumn Term 1

Logging in Teams, Email Etiquette  
Input Process Output  
Input output Devices  
Logic Gates  
Parts of a computer  
Thinking Machines  
Open-Source vs Proprietary

**Skills:** Students learn about the hardware needed to make a computer system, including software.

### Vector Graphics



Autumn Term 2

Intro Inkscape  
Multiple objects  
Paths  
What will you make?  
Markup  
Bitmap vs Vector

**Skills:** Students learn how to use Inkscape software to make vector drawings

### Binary Representations

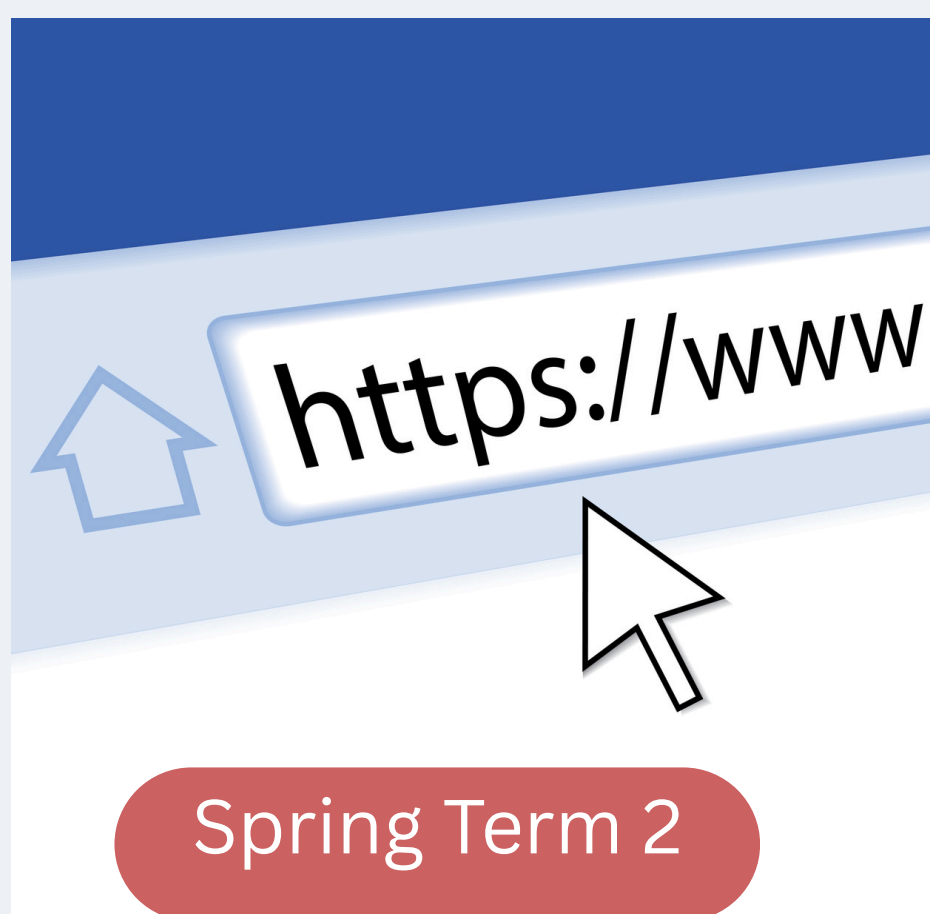


Spring Term 1

Representations  
Lights & Drums  
Binary Digits  
Numbers in Binary  
Binary / Data measures

**Skills:** Students learn what binary is and how all computer text and numbers are a representation of these binary symbols.

### Making Websites

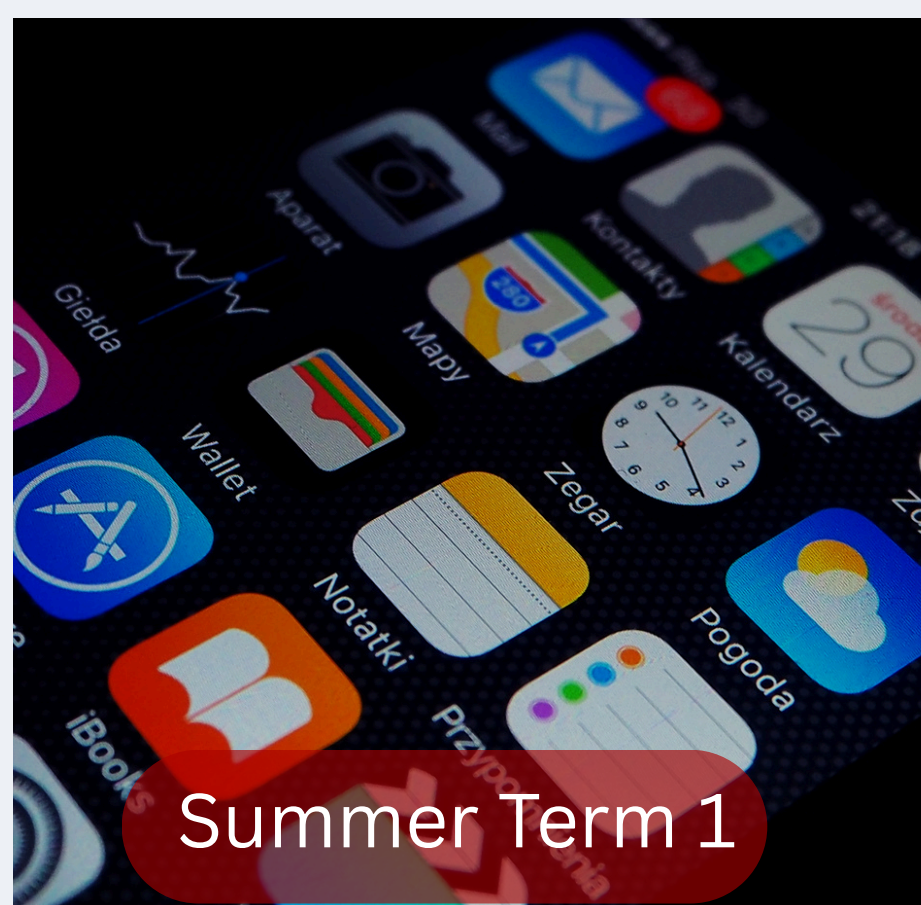


Spring Term 2

Web - Purpose  
Template  
Images  
Text  
Hyperlinks  
Completion

**Skills:** Students learn how to make a website including images and text.

### Mobile App Development



Summer Term 1

Mobile App development Design  
Online safety  
Mobile phone hardware  
Online safety in App development  
App development

**Skills:** Students learn the design and development process of creating their own mobile app, using App Lab from code.org.

### Introduction to Python



Summer Term 2

Python - Intro  
Math Operators  
Logic Operators  
If Else Elif  
While Loops  
Iteration & Selection

**Skills:** Students learn how to program using text-based programming with Python.