# Computing Curriculum at St. James' C of E Infant School

| | |
|---|---|
| Computer Science | |
| Self Image and Identity | |
| E-safety | |
| Information Technology | |
| Managing Information | |

# Year 1

## Computer Science

### Computer Science

**CORE**
Create simple programs

Design and create programs for others to play

Describe uses of technology beyond school

Predict the outcomes of a program

## Digital Literacy

### Self Image & Identity

**CORE**
Explain how other people's identity online can be different to their identity in real life

Give examples of issues online that might make me feel sad, worried, uncomfortable or frightened and give examples of how I might get help

### Online Reputation

**CORE**
Recognise that information about me can stay online for a long time and could be copied

Describe what information should not be put online without asking a trusted adult first

### Health, Well-Being & Lifestyle

**CORE**
Explain rules to keep us safe when we are using technology both in and beyond the home and give examples

## Privacy & Settings

**CORE**

Recognise examples of information that is personal to me and what information not to put online

# Information Technology

## Information Technology

**CORE**

Create posters by adding images to frames, editing text by changing font style, colour and size

Create images with different layers by placing one image on top of another

Combine words and images to create word art

Create a visual plan using images and text to tell a story

Create a simple presentation using slides

Combine images, text and voice recordings to retell a story

Combine images and edit text to create front covers, posters and invitations

Explore augmented reality and capture images.

Use digital drawing tools to draw characters from a story or for a game

Type words correctly using a keyboard

Create a simple animation with moving characters and voice recordings

Use a camera to capture images which are in focus

Select options to change the appearance of digital content

Apply edits to digital content to achieve a particular effect

Create digital galleries using images and text

Use photo editing tools to crop images

Create digital books combining text, images, and sounds

Collect images by capturing screenshots and editing them

Make improvements to digital content following feedback

| OUR LEARNING LADDER | Vocabulary |
| --- | --- |
| Can you recognise the use of information technology in and out of school?<br>Can you log on and off a laptop and desktop?<br>Can you complete an activity on a laptop and desktop?<br>Can you create a simple program?<br>Can you use the World Wide Web to access, search and retrieve simple information?<br>Can you create, organise, manipulate and store digital images?<br>Can you talk about how to stay safe online? | log, create, organise, search, retrieve, digital, image, website, direction, laptop, desktop, computer |

# Year 2

## Computer Science

### Computer Science

**CORE**

Create simple programs

Debug an error in a simple algorithm

Understand that instructions in an algorithm need to be precise and unambiguous

Use logical reasoning to predict the behaviour of simple programs

Use simple repeats in programs

Use basic selections in programs and explain using the language if … then

Understand basic programming techniques

Identify, name and explain the functions of the main components of a computer

Investigate how computers have changed over the years

Name and compare common input and output devices of computer systems

Identify and describe uses of technology beyond school

Explain how robots can be controlled

## Digital Literacy

### Self Image & Identity

**CORE**

Recognise that there may be people online who could make me feel sad, embarrassed or upset

## Online Relationships

**CORE**

Explain why it is important to be considerate and kind to people online in ways that do not upset others

Use the internet to communicate with people you don't know well and give examples of how you might use technology

## Online Bullying

**CORE**

Give examples of bullying behaviour, how it could look online and how it can make someone feel

Talk about how someone can/would get help about being bullied online or offline

## Managing Information

**CORE**

Use simple keywords in a search engine to find things out

Navigate a simple web page to get to information needed (e.g. home, forward, back buttons; links, tabs and sections)

Describe and demonstrate how to get help from a trusted adult if I find content that makes me feel sad, uncomfortable, worried or frightened

## Privacy & Settings

**CORE**

Explain how devices can connect to the internet and list some of those devices

# Information Technology

## Information Technology

**CORE**

Create digital books combining text, images, and sounds

Type words in a speech bubble using a keyboard

Combine text and images to create a video presentation

Type words correctly using a keyboard

Edit video content to improve it

Collect images by capturing screenshots and editing them

Combine images to create digital galleries

Present information on a topic using images, text boxes and voice recordings

Create an animation with moving characters and voice recordings

| OUR LEARNING LADDER | Vocabulary |
|---|---|
| Can you create and give precise and unambiguous instructions?<br>Can you use logical reasoning to predict the behaviour of electronic devices?<br>Can you create and debug a simple program?<br>Can you access a digital learning platform?<br>Can you retrieve and upload information?<br>Can you receive and retrieve an email?<br>Can you reply to and send an email?<br>Can you create and present your own data?<br>Can you explain how to stay safe online? | algorithm, coding, debug, e-safety, program, sequence, email, receive/retrieve, precise, unambiguous , reasoning, predict, device, |