



Curriculum Road Map

1

Year 1
Skills:

- Understand how to use a camera on a device.
- Understand that you can save files onto tablets/computers.
- Predict how a set of instructions will affect a machine (create movement/music).
- Be able to give a machine a set of instructions to move.
- Understand that we need to follow certain rules to remain safe when visiting places online.
- Know that I need to stay safe when using technology (internet safety- Jessie and Friends and Kidsafe)- know what to do if I see things that upset me online at school or home (trusted adult -Kidsafe).
- Know that some information should be kept private.

3

Year 3
Skills:

- Understand how search engines work, how to use them and take information from them safely.
- Understand what keyword searching is and how to select keywords to produce the best search results.
- Understand what an E-Book is and how it can be used to present information.
- Understand that filters can keep you safe when searching for information and images on the internet.
- Be able to use loops and procedures when programming an algorithm.
- Be able to stay safe online by choosing websites that are appropriate to visit and avoid those that are not inappropriate sites.
- I know I should not share personal information online. I have a range of strategies for dealing with concerns over content or contact online (link to Kidsafe and Safety week).

4

Year 4
Skills:

- Understand how to add video and voice recordings onto an app.
- Understand how to cut and trim videos.
- Write and debug a program controlling physical systems.
- Be able to program an electrical circuit to turn on/off depending on the input.
- Explore what cyber -bullying means & what to do when they encounter it.
- I know I should not share personal information online. I have a range of strategies for dealing with concerns over content or contact online (link to Kidsafe and Safety week).

N

Nursery
Skills:

- Understand a Bee-bot or similar can be programmed to move.
- With support I programme a Bee-bot (or similar) to make it move for a particular purpose.
- Explore and use simple repetition in music and dance.
- Say what will happen (or predict) when I press /swipe on a game using the iPad /class interactive board.
- Use technology appropriately through role-play. Recognise some technology that is used at home or school (e.g. telephone).
- Name and use an iPad with developing control.
- Speak to an adult about what I have seen. I can say if something I find on the internet makes me have 'yucky feelings' (Kidsafe).

2

Year 2
Skills:

- Be able to open saved files and edit them on a iPad/computer.
- Understand how to add text and a picture to an app and edit them.
- Be able to program a computer, giving it a set of instructions to move an image.
- Be able to debug a set of instructions and explain why they wouldn't work.
- Understand what the internet is and what it can be used for.
- Learn that many websites ask for information that is private and understand how to responsibly handle such requests.
- I know I should not share personal information online. I have a range of strategies for dealing with concerns over content or contact online (link to Kidsafe and Safety week).

6

Year 6
Skills:

- Understand how to collect, present, analyse and evaluate data using a spreadsheet.
- Use formulas and formatting to display data quickly and effectively.
- Be able to use Python to code, understanding the role of 'variables' and 'functions'.
- Be able to design and create a game using Python code.
- Understand what social media is and what choices you should make when using it.
- Understand how to protect devices from virus threats.
- I know I should not share personal information online. I have a range of strategies for dealing with concerns over content or contact online (link to Kidsafe and Safety week).

5

Year 5
Skills:

- Understand how to present information collaboratively using online platforms.
- Understand how to use transitions and animations on a presentation app.
- Understand that copyright law means it is illegal to publish images owned by somebody else.
- Be able to adapt an algorithm depending on the type of input.
- Discuss what actions could be taken if they are uncomfortable or upset online.
- Understand what a secure password might look like for age -appropriate websites.
- I know I should not share personal information online. I have a range of strategies for dealing with concerns over content or contact online (link to Kidsafe and Safety week).

R

R

Reception
Skills:

- Use a range of control toys and devices (beebots, ipads).
- Understand that goals can be achieved by following a sequence of steps - simple programming.
- Follow symbol sequence algorithms (PE Cards, jump, step etc).
- Programme a Bee-bot, one instruction at a time and clear it at the end and recognise that there is a problem and say what problem is (plugged or unplugged activities).
- Make predictions about what a programme will do /do next.
- Select and use technology for a particular purpose. Name a keyboard and mouse and use with developing control.
- Use digital devices to create and store content e.g taking a photo, videoing, artwork - iPads.
- Select and use technology for a particular purpose. Access and use simple activities using touch technology with increasing control.
- Name some uses of IT beyond school e.g audio books, listening to music, watching films, creating paintings, send messages.
- Know that I need to stay safe when using technology (internet safety- Jessie and Friends and Kidsafe)- know what to do if I see things that upset me online at school or home (trusted adult -Kidsafe).
- Know that some information should be kept private.

