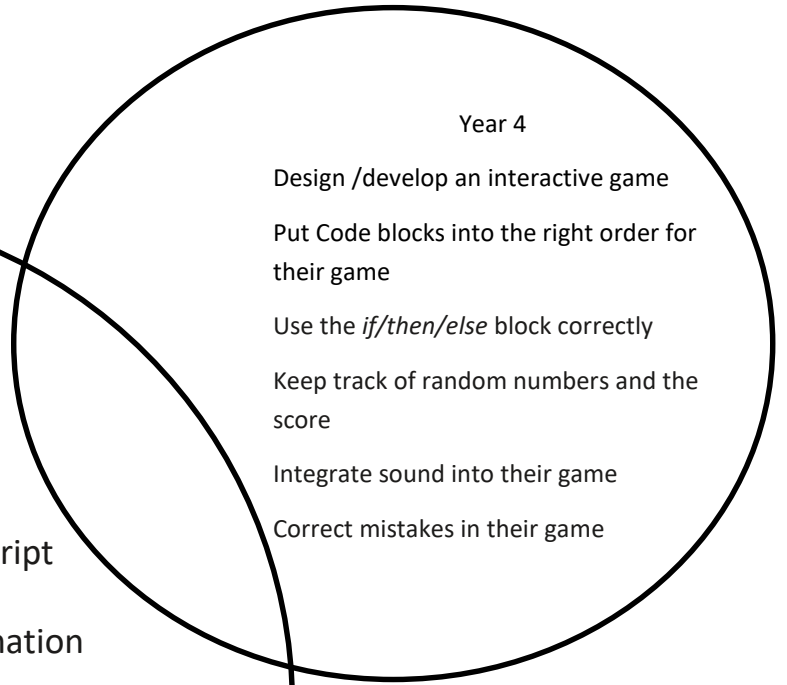
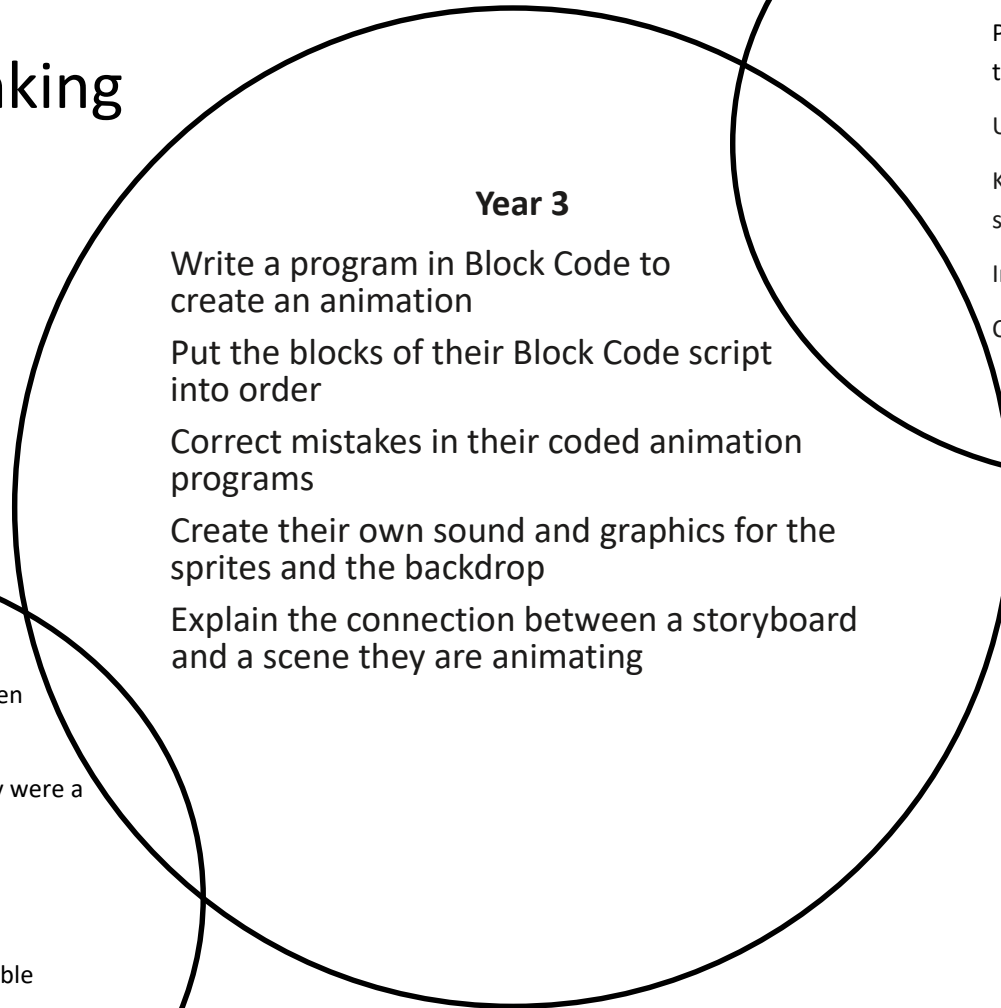
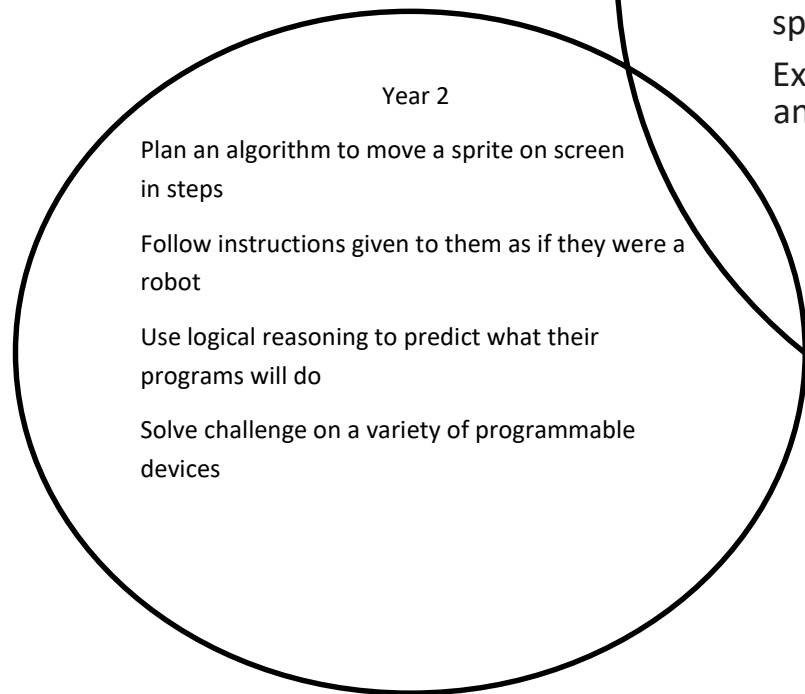


Knowledge Progression for Computer Science and Computational Thinking Year 3



Vocabulary

- Sequence
- Animation
- Algorithm
- Debug
- Input
- Graphic
- Sprite
- Script

Knowledge Progression for Digital Literacy and Online Safety

Year 3

Year 2

Be aware of and observe age restrictions in commercial games

Know that they should tell their parents or carers if they are concerned about something in a computer game

Understand that playing computer games should be balanced with other activities

Reflect on what makes games enjoyable and sometimes addictive

Begin to understand the concept of online bullying and how to respond

Year 3

Can give some examples of things they should or should not do when using digital technology in a range of contexts

The child can use email to communicate with a classmate.

When given a list of web pages, the child can decide which they think will be most useful for their purpose or to answer a question they have.

Understand that Google results are based on the key words in its index of a copy of the web

Begin to understand that information shared online cannot always be controlled

Develop a deeper understanding of the consequences of online bullying

Understand the role of a bystander in online bullying.

Year 4

Can demonstrate that they can act responsibly when using technology, when developing computer games or prototype products or when using sampled music or creating a composition, including observing copyright and any terms and conditions.

They can contribute positively to a shared blog or wiki

Understand that online and peer pressure can be a positive and negative influence

Understand that although information posted on the internet might not always be true or accurate, it lasts forever.

Understand that virtual friends are still strangers that they do not know

Vocabulary

Acceptable behaviour

Email

Attachment

Bystander

Report

Permission

Online bullying

Keywords

Search

Knowledge Progression for Information Technology

Year 3

Year 2

Take photos using a digital camera, tablet or smartphone

Take focused, sharp photos

Apply adjustments and effects to digital photos

Select their favourite photos for inclusion in a shared portfolio

Find useful information and images on websites.

Create short presentations or Information leaflets

Save and retrieve their presentations; add images or other media as appropriate.

Create charts to show data they collect

Explore Google Maps or Google Earth to find a familiar location

Year 3

Can use a range of programs on a computer or tablet

Be able to research a topic efficiently

Be able to find appropriate, Creative Commons licensed images using Google

Design and record an effective PowerPoint presentation (or similar)

Analyse existing video/film to learn how this is shot

Record high quality footage

Export the movie from e.g. an animation app or camera roll to a video editing app or software

Edit clips and films

Record a detailed, informative commentary or narrative

Use email to work together on a joint project

Collect data via the internet

Move information between different applications e.g. add data collected to a chart or graph

Analyse the data collected

Year 4

Create a simple composition using sequencing software

Record and combine samples to produce a piece of music

Refine and develop their composition

Find and read an article on Wikipedia

Evaluate an article for trustworthiness

Create content for a wiki /blog

Edit their own and others content

Edit the HTML for a web page

Use weather measurement equipment safe

Enter data into a spreadsheet to create simple charts

Take digital photos

Make predictions and present findings using presentation software

Vocabulary

Research

Presentation

Analyse

Edit

Narration

Survey

Data

Spreadsheet