



# iCompute

## Overview

This unit introduces children to graphical drawing using digital tools. They will explore how images are constructed from shapes and use a variety of geometric shapes, lines, colours, effects and layering to create graphic images.

## Curriculum Links

- \* Art/Design
- \* Design & Technology



National  
Curriculum

- \* design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems: solve problems by decomposing them into smaller parts
- \* use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- \* use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- \* understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration
- \* use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- \* select, use and combine a variety of

# Objectives

Lesson	Title	National Curriculum Links	Objectives	Success Criteria	Vocabulary
5.6.1	iCreate	* select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	* To understand that digital tools can be used to create images	* The children use software to create an image	Tools, area, resize, rotate, toolbar; handles; canvas; undo; redo; fill
5.6.2	iShape		* To understand that vector images are made up of shapes and lines	* The children recognise the component shapes of a vector image * They create vector images using digital tools	Vector; group; resize; rotate; fill; stamp; handles; duplicate; layer; send to front; send to back; send Backwards; send forwards
5.6.3	iDetail		* To use digital tools to improve detail in images	* The children can explain which tools help create specific effects * They make changes to images to create effects	Zoom; resize; rotate; canvas; group; layer; zoom in; zoom out; pan; export
5.6.4	iLayer		* To understand that vector images are constructed of layers	* The children identify layers in vector images * The children use layers to create a vector image	Image; vector; layer; forward; backward; send to front; send to back
5.6.5	iDesign		* To design vector images * To create vector images * To evaluate images and make improvements	* The children design a vector drawing * They use digital tools to create a vector drawing according to a design * The evaluate and improve their work	Design; evaluate; improve; order; layer; group; position; rotate; improve