Autumn 2 E-safety, programming & digital art

Knowledge *I know…*	Skills *I can…*	Links back to *I remember…*
• The internet helps us to find out new things • We use Kiddle on the internet • We use the internet with a grown up • A Bee-Bot is a robot • A Bee-Bot can be programmed to move (using an algorithm)	• Follow the rules we have in school/at home for using the internet/iPads • Use Kiddle to search on the internet safely (with the help of on adult) • Get help from an adult if something on the internet worries me • Program a Bee-Bot to move (using an algorithm **in a group)** • Use the iPad to create a picture • Choose different colours, sizes and shapes to draw a picture (using my finger) • Talk about my picture	• n/a

Vocabulary:

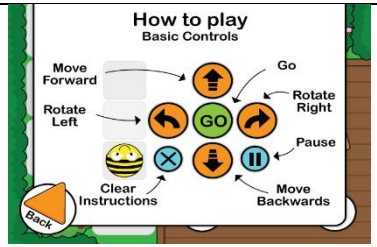
Algorithm: a precise set of ordered steps that can be followed by a human or a computer to achieve a task.
App: A computer programme on a phone, tablet or watch
Beebot: A programable robot
Command: a single instruction that can be used in a program to control a computer.
Digital art: Art that is made using technology
Internet: a global computer network that gives information and communication
Kiddle: An online search engine for children
Online: your computer is connected to the internet
Picture: a painting or drawing
Program: a set of ordered commands that can be run by a computer to complete a task.

[N.B. Children to be exposed to vocabulary but no expectation to use as per skills progression]

Images:

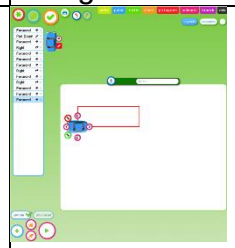
Spring 1 Presentation, programming, e-safety

Knowledge *I know…*	Skills *I can…*	Links back to *I remember…*
• Beebots move when you put an algorithm in • An algorithm is a of ordered steps to follow • You add an algorithm to a beetbot using the buttons • A photograph is a picture made with a camera. • Not to share things about myself on the internet	• Talk about what an algorithm is (begin) • Press buttons on a Beebot to tell it what to do (create an algorithm) **in partners** • **U**se a camera to take a photograph (with an adults' help). • Create a picture using SketchesSchool • Keep safe by not sharing information about myself on the internet. Get help if I see something that upsets me on the internet	• How to stay safe online (autumn). • Using an iPad to create a picture (autumn)

Vocabulary:	Images:
Algorithm: a precise set of ordered steps that can be followed by a human or a computer to achieve a task. **Beebot:** a programable robot **Command**: a single instruction that can be used in a program to control a computer. **Program:** a set of ordered commands that can be run by a computer to complete a task. **Photograph:** is a picture made using a camera, printed or stored digitally. [N.B. Children to be exposed to vocabulary but no expectation to use as per skills progression]	

Summer 1 Film making, audio, programming, e-safety

Knowledge *I know…*	Skills *I can…*	Links back to *I remember…*
• The j2data turtle programme can be used to make pathways or pictures • That an algorithm is a 'special computer language' • You can press buttons to make an algorithm and it will do the same thing each time • iPads have a voice memo app that records a voice • Audio recording only have sound • iPads have a camera app that can make a film – this is pictures and sound • That the internet can sometimes be unsafe	• Press buttons on j2data turtle to create a pathway or picture using an algorithm • Use the voice memos app on an iPad to record my voice • Use the camera app on an iPad to film others telling a story • Look out for dangers on the internet • Get help from a grown up if I see something that's unsafe • Be respectful when making recordings on an iPad	• How to use a Beebot • That an algorithm is a 'special computer language' • You can press buttons to make an algorithm and it will do the same thing each time • A photograph is a picture made using a camera. • How to use a camera to take a photograph with an adults help. • How to use SketchesSchool on the ipad to create a picture. • How to be safe using the internet, computers and iPads.

Vocabulary:	Images:
Audio: Sound when recorded **Video:** Recording of moving images **App:** A computer programme that's on a tablet, phone or watch **Record**: to store sounds or moving pictures using electronic equipment **Internet**: a global computer network that gives information and communication	

Progress is **knowing more** (knowledge), **remembering more** (links back to), **being able to do more** (skills)