





Autumn 2 E-safety, programming, digital art & data handling



Knowledge I <i>know</i> ...	Skills I <i>can</i> ...	Links back to I <i>remember</i> ...
<ul style="list-style-type: none"> It is important to be safe when using the internet, laptops and iPads. To use kiddle when searching online. To search sensibly and not to deliberately look for or send anything unpleasant online. To speak to a grown-up if I see something scary online. J2data turtle program can be used to make pathways and/or pictures. How to use J2data turtle. An algorithm is a precise set of ordered steps that can be followed by a human or a computer to achieve a task. A program is a set of ordered commands that can be run by a computer to complete a task. That technology (iPads) can be used to create pictures with a range of effects. Pictograms and block diagrams can be used to present data clearly. Pictograms and block diagrams help to answers questions about totalling and comparing. 	<ul style="list-style-type: none"> Use kiddle to search online. Explain what it means to stay safe online. Talk about what I have seen online Get help from an adult if something online is worrying me. Explain what algorithms are. Create a precise program using j2data turtle. I can use an iPad to create a range of effects - shades, patterns and results using different eTools (Starry Night) I can talk about how I have used digital art to create a picture. I can look at a pictogram and/or block diagram ask and answer simple questions (by counting objects in each category and sorting categories by quantity) I can construct a pictogram and/or block diagram using j2data chart. 	<ul style="list-style-type: none"> My teacher using kiddle to search online to find information. Programming Beebots to move around a map. An algorithm is a precise set of ordered steps. Digital art is a type of art made using technology. Constructing a pictogram and/or block diagram using j2data chart as a class.
Vocabulary: Kiddle: an online search engine for children. J2data turtle: a program that can be used to make pathways and/or pictures. J2data chart: a program that can be used to make block diagrams and/or pictograms. Algorithm: a precise set of ordered steps that can be followed by a human or a computer to achieve a task. Program: a set of ordered commands that can be run by a computer to complete a task. Command: a single instruction that can be used in a program to control a computer. Pictogram: a <i>pictogram</i> is a chart that uses pictures to represent data. Block diagram: a simple chart which displays units of data with blocks . Data: a collection of information.		Images:  

Spring 1 Precise programming and debugging of Beebot, email, esafety

Knowledge I <i>know</i> ...	Skills I <i>can</i> ...	Links back to I <i>remember</i> ...
<ul style="list-style-type: none"> How to use a Beebot An algorithm is a precise set of ordered steps. A program is a set of ordered commands that can be run by a computer to achieve a task. Debugging is finding and fixing a problem. How to use j2data mix to present my ideas. Emails can be used for communication. To follow our HIS Golden Rules online. Who to ask for help if I am worried about something I see/receive online (ThinkUKnow). 	<ul style="list-style-type: none"> Explain what algorithms are. Create a precise program using a Beebot. Create and debug simple programs on a Beebot. Use j2data mix to make a picture and write a sentence. Select the correct tools. Present my ideas (above) to a group. Send a message through a class/shared email. Use email to ask questions. Communicate safely and respectfully when using emails. 	<ul style="list-style-type: none"> Searching safely online using Kiddle How to stay safe online Using an iPad to create a picture Facetime/zoom call on our KIT day Sending a class email on our KIT day Using SketchesSchool Programming a Beebot with support

Vocabulary:	Images:
<p>J2data mix: a program that combines text and images.</p> <p>Algorithm: a precise set of ordered steps that can be followed by a human or a computer to achieve a task.</p> <p>Beebot: a programmable robot</p> <p>Debugging: finding and fixing a problem with a program.</p> <p>Email: messages delivered by an electronic device.</p> <p>Present: show what I have done.</p> <p>Program: a set of ordered commands that can be run by a computer to complete a task.</p> <p>Command: a single instruction that can be used in a program to control a computer.</p> <p>Retrieve: find information stored in a computer.</p> <p>Tool: a device used to carry out a particular job.</p> <p>Save: store for future use.</p>	 

Summer 1 Predicting behaviour of Beebots, audio, film making, e-safety

Knowledge <i>I know...</i>	Skills <i>I can...</i>	Links back to <i>I remember...</i>
<ul style="list-style-type: none">• That a Beebot is more effective on certain surfaces• That a Beebot will slow down/speed up when travelling at an incline.• How to measure how far a Beebot travels (standard).• An audio recording has no image.• You can combine still images and sound using Photostory 3.• A video combines moving images and sounds.• The iPad has different apps to record images and sounds.• That the internet can sometimes be unsafe.• To follow our HIS Golden Rules when using all electronic devices.	<ul style="list-style-type: none">• Predict which surface is most effective for a Beebot.• Predict what will happen to a Beebot when programmed to travel at an incline.• Predict how far a Beebot will travel in standard units.• Use the voice memo app (iPad) to record an audio clip.• Combine images to create a short film for a story retell.• Record a video clip using a camera/iPad.• Add object animation with the support of a teacher.• Identify risks when online.• Use an iPad safely and respectfully.	<ul style="list-style-type: none">• How to use a Beebot• An algorithm is a precise set of ordered steps.• A program is a set of ordered commands that can be run by a computer to complete a task• Debugging is finding and fixing a problem.• Use j2data Mix to make a picture and write a sentence.• Select the correct tools.• Present my ideas (above) to a group.• Emails can be used for communication.• To follow our HIS Golden Rules online.• Who to ask for help if I am worried about something I see/receive online (ThinkUKnow).
Vocabulary:		Images:
<p>Audio: sound when recorded.</p> <p>App: a program that is on a tablet, phone or watch.</p> <p>Beebot: a programmable robot</p> <p>Command: a single instruction that can be used in a program to control a computer.</p> <p>Incline: a slope</p> <p>Photostory 3: a program that makes digital pictures into a story.</p> <p>Present: show what I have done.</p> <p>Predict: say or estimate what might happen.</p> <p>Program: a set of ordered commands that can be run by a computer to complete a task.</p> <p>Record: to store sounds or moving pictures using electronic equipment.</p> <p>Save: store for future use.</p> <p>Video: recording of moving images.</p>		 

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