



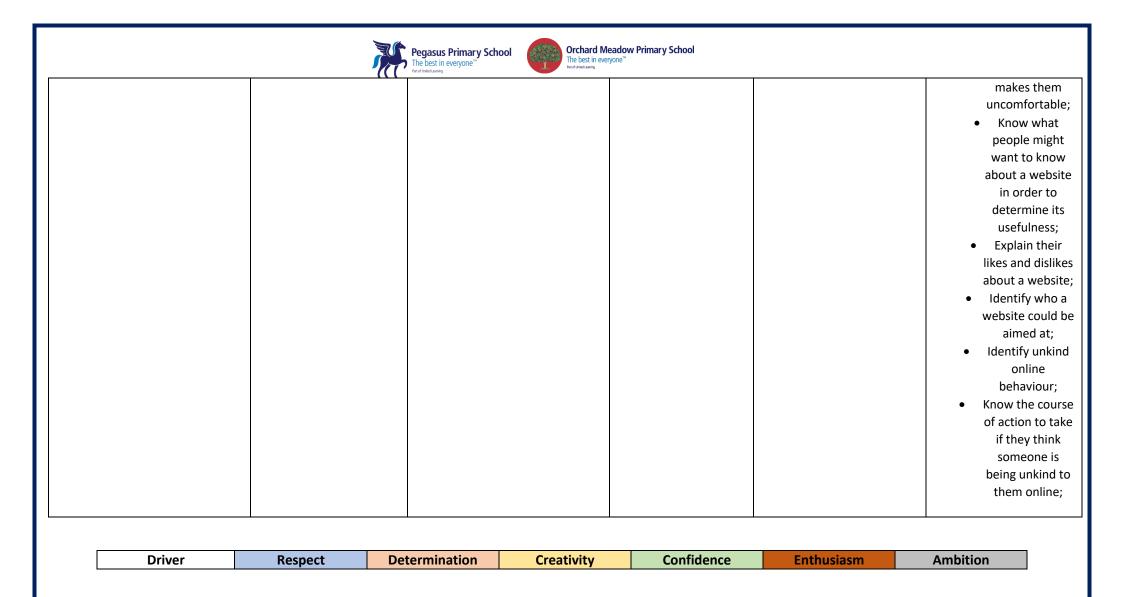
Nursery			Reception			
Autumn Spring		Summer Autumn		Spring	Summer	
Digital Literacy	Information Technology	Computer science	Digital Literacy	Information Technology	Computer science	
Children should be taught that if they are using technology they need to use it with an adult.	Children should experience typing on a keyboard and understand these create letters to make words.	Children should experience moving a Beebot using forward/backwards/turn.	Children should participate in Digital Literacy week as part of the whole school. Children should be taught that:  • Everything that goes on the internet can be seen by anyone • Children should never be online unsupervised • Some Apps are for older children	Children should have access to A computer as part of play Children should be taught to:  Find the letters to spell their name Find the enter/space bar/ backspace  Experience typing into a Word or Paint document with a purpose.	Children to have access to Beebots as part of play. Children should be taught to:  Move the Beebot forward/backwards/turn  Wipe the BeeBot's memory.  Turn the Beebot and off Attempt to move the Beebot from point A to point B	

Driver	Respect	Determination	Creativity	Confidence	Enthusiasm	Ambition
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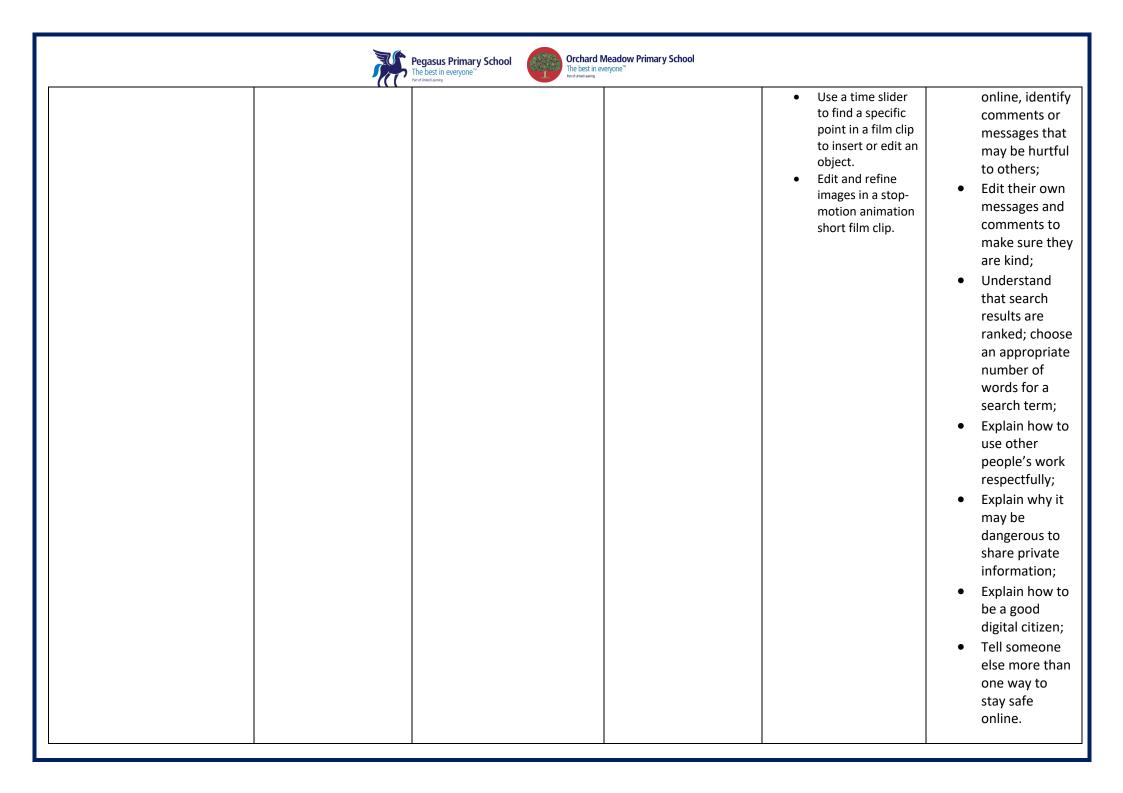
	Year 1		Year 2			
Autumn Spring		Summer	Autumn	Spring	Summer	
Computer science-BeeBots	Information Technology	Computer science-Scratch Junior	Scratch (and logo)	Information Technology (art)	Digital Literacy	
<ul> <li>say what an algorithm is</li> <li>say why it is important to be precise when writing an algorithm;</li> <li>check their work for mistakes (debug);</li> <li>program a Bee-Bot using the arrow buttons;</li> <li>start their programming sequence again if they need to</li> <li>check their work for mistakes to debug a program;</li> <li>plan and check an algorithm</li> </ul>	With support from an adult: children are able to  Login to the computer  Find an app on the Ipad  Input commands into a Beebot  Type with two hands.  Use shift, space and enter correctly.  Use undo and redo.  Make text bold, italic or underline. Save their work in their folder.  Edit text using backspace, delete and the arrow keys.  Format the font.  Select single words	<ul> <li>Add new characters and backgrounds;</li> <li>Use blocks for movement in different</li> <li>directions;</li> <li>Create short sets of sequenced instructions.</li> <li>Use different end blocks, including repeat forever;</li> <li>change the size of characters to grow or shrink</li> <li>Hide and show characters with an instruction block;</li> <li>Program two or more characters with instructions at the same time.</li> </ul>	<ul> <li>Create simple algorithms using a number of different blocks.</li> <li>Use the repeat and green flag blocks to control algorithms.</li> <li>Write an algorithm for a shape</li> <li>Use the repeat command.</li> <li>Combine a range of blocks to achieve a purpose.</li> <li>Use more than one sprite and combine algorithms.</li> </ul>	<ul> <li>Access an appropriate program for achieving a specific task;</li> <li>Switch between program tools to produce different techniques;</li> <li>Alter the formatting of a tool to adjust the colour or size., recreate a piece of art using a computer program;</li> <li>Manipulate shapes and objects to recreate an art style.</li> </ul>	<ul> <li>Know how people can use the information they put online</li> <li>Know that a digital footprint contains information about a person;</li> <li>Know how to use keywords to give better search results;</li> <li>Use a website to search for information;</li> <li>Identify possible dangers online;</li> <li>Explain how to identify websites suitable for their age;</li> <li>Know when and how to ask an adult for advice about accessing a website;</li> <li>Explain what to do if a website</li> </ul>	







Year 3			Year 4			
Autumn	Spring	Summer	Autumn	Spring	Summer	
<u>Digital Literacy</u>	Information Technology	Computer science	Computer science	Information Technology (animation)	Digital Literacy	
<ul> <li>Recognise and define cyberbullying;</li> <li>Identify safe people to report cyberbullying to;</li> <li>Know how cyberbullying can happen via a range of devices;</li> <li>Identify a range of targeted online adverts;</li> <li>Create a strong password, explaining why it is important;</li> <li>Discuss the benefits and disadvantages of email as a form of communication;</li> <li>Identify an email that may be unsafe to open.</li> <li>Write a clear email, explaining why an address and subject is important;</li> <li>Explain what an online community is, giving examples of ones they are a part of;</li> <li>Identify and explain different forms of online communication;</li> <li>Explain the positive and negative aspects of online communities;</li> <li>Explain the differences between communication in real life and online;</li> <li>Apply their learning to a planning activity.</li> </ul>	<ul> <li>Create a hyperlink to another slide</li> <li>Use slide transitions</li> <li>Insert audio and video files</li> <li>Plan a branching story</li> <li>Create simple slide templates</li> <li>Copy and organise slides</li> <li>Use animations to introduce objects</li> <li>Find out which audio and video formats work best</li> <li>Set when audio or video plays</li> <li>Evaluate the layout of the presentation</li> </ul>	<ul> <li>Draw shapes with spaces between using penup and pendown (Turtle Logo)</li> <li>Change and alter the pen settings (Scratch)</li> <li>Draw regular polygons using Logo to calculate the angle (Turtle Logo)</li> <li>Create and debug algorithms to draw patterns by repeating regular polygons (Scratch)</li> </ul>	<ul> <li>Write a program which accomplishes a specific goal.</li> <li>Create a program that includes a logical sequence.</li> <li>Debug a program they have written.</li> <li>Use repetition and selection.</li> <li>Work with variables and adjust</li> <li>Understand and use the duplicate function.</li> <li>Demonstrate that they understand how to combine a range of different effects to create their own quiz.</li> </ul>	<ul> <li>Explain what is meant by animation.</li> <li>Create a series of linked frames that can be played as a short animation.</li> <li>Control and adjust a time slider to locate a different point in a film clip.</li> <li>Insert images to create a simple stop-motion animation short film clip.</li> <li>Evaluate the good and bad points about some animation software.</li> <li>Describe one or more traditional methods of animation.</li> <li>Make slight changes to an image using onion skinning, understanding the term.</li> </ul>	<ul> <li>Define cyberbullying;</li> <li>know how to respond to a hurtful message or comment online;</li> <li>Access a trusted search engine;</li> <li>Understand that different search terms give different results;</li> <li>Know what plagiarism is;</li> <li>Identify which information to keep private online;</li> <li>Explain what digital citizenship is;</li> <li>Tell someone else at least one way to stay safe</li> </ul>	







Year 5			Year 6			
Autumn	Spring	Summer	Autumn	Spring	Summer	
<u>Digital Literacy</u>	Computer science	Information Technology	Information Technology	Digital Literacy	Computer science	
<ul> <li>Identify a spam email; explain the steps to take to avoid receiving spam;</li> <li>Explain what to do with spam email;</li> <li>Understand why they should cite a source;</li> <li>Explain the rules for creating a strong password; Explain why having a strong password is important;</li> <li>Know that not everything they see online is true;</li> <li>Explain how to stay safe online; identify unsafe online behaviour.</li> </ul>	<ul> <li>Move and edit blocks as part of an algorithm.</li> <li>Program an algorithm as a sequence of game instructions with actions and consequences</li> <li>Add additional effects and features, such as sound or point scoring, to enhance the appeal of a game.</li> <li>Use repetition and selection.</li> <li>Work with variables and adjust these</li> </ul>	<ul> <li>Draw and manipulate 2D shapes into 3D shapes.</li> <li>Import 3D models from the 3D warehouse.</li> <li>Use a range of SketchUp tools including; shape, push, pull, orbit, pan, zoom, erase and fill.</li> <li>Use inference points to draw lines and shapes.</li> <li>Use a wide range of SketchUp tools and concepts including: the</li> </ul>	<ul> <li>Enter text and numbers and formulae into a spreadsheet.</li> <li>Identify and refer to cells by row and column.</li> <li>Use functions: SUM AVERAGE, MIN and MAX.</li> <li>Edit data and discuss the effect on results.</li> <li>Create graphs.</li> <li>Design their own spreadsheet for a specific purpose.</li> </ul>	<ul> <li>Say what bullying and cyberbullying are;</li> <li>Say how people should deal with cyberbullying;</li> <li>Understand why I should ask an adult if I am unsure;</li> <li>Identify warning signs that a website might not be secure;</li> <li>Identify personal information;</li> <li>Explain what to do if I am asked or told something online which makes me uncomfortable;</li> <li>Explain some of the dangers of revealing personal</li> </ul>	<ul> <li>Select         appropriate         characters         to match a         scene.</li> <li>Animate         characters         with         movement         and speech         in a story         scene.</li> <li>Use         broadcast         and receive         blocks         correctly in         code.</li> <li>Use show         and hide         blocks         correctly in         code.</li> </ul>	





- Identify a dangerous spam email;
- Alter a photograph. Understand how false photographs can make people feel bad about themselves.
- depending on the effect they wish to
- create.
- Understand and use the duplicate function.
  - Demonstrate that they understand how
- to combine a range of different effects to
- create their own quiz.

dimensions toolbar and guides, tape measure, zoom extents and the 3D warehouse. Understand the advantages of spreadsheets over comparative manual methods.

information to an online friend;

- Choose an appropriate action online to stay safe;
- Identify a situation I should be careful in online:
- Look in the address bar of a website so check for security;
- Identify the lock symbol in an address bar;
- Explain why someone might have an online friendship;
- Explain what the SMART acronym means;
- Explain what a stereotype is;
- Compare gender stereotypes.

- Create a sequence of story scenes with added audio.
- Structure

   and
   sequence
   the
   animation of
   characters in
   each scene.
- Use the repeat command to create animation effect. Make a character visible or invisible at the correct times.

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