Polehampton C. of E. Schools

Computing at Polehampton
Teaching and Learning Strands: Code, Collate, Communicate and Connect

	Autumn	Spring	Summer
Foundation	**Connect** Why is it important to keep our passwords private? On Purple Mash Simple City explore the town. Are there any locations that are familiar to our local area of Twyford? Can you find the cafe? What happens at the recycling centre? **Communicate** Which toolkit would be best to create a picture in the style of X ? Watch Jessie and Friends. Can you describe what to do if we see something that makes us feel sad? **Code** Can you identify the instruments in a sound sequence? Can you create a sequence to test a friend with?	**Connect** We know the importance of rules to keep ourselves safe in different situations e.g. road safety rules. What are the rules we need to follow to stay safe online? We know how to communicate respectfully in person. Is this different when we are online? **Communicate** How carefully can you use your mouse to colour inside the lines? **Code** Can you complete the program by solving the number bond problems? Can you program your beebot to get from A to B? **Collect** How can we use technology to represent our data? We know we can use books to research and find answers to questions. What else could we use?	**Connect** Where in the world are we? - Google Earth What is our place in the universe? How can we use online tools to help us explore these questions? **Communicate** Can you collaborate with your classmates to make an animated story? **Code** Use Multidrag to create a Space scene. Can you edit the sprites to make them look different? Which button do you press to make the animations start? Which button do you press to make the animations stop? What do you have to do to make the sprites move?

			Collect Can you take a tally of eye colours in the class and then make it into a chart using 2graph? Which colour is the most popular?
Year 1	**Connect** How do we keep ourselves safe on the internet? **Communicate** Can you create an avatar to represent you? Complete the quiz to sort 2d shapes by their properties ? How can we use technology to retell the story of the Little Red Hen? How can we identify and research different homes? **Code** How can we use technology to represent the data we collect on our autumn hunt?	**Communicate** How carefully can you use your mouse to colour inside the lines? **Code** Can you complete a programme by entering different algorithms? **Collect** We know we can use books to research and find answers to questions. What else could we use? How can we use technology to represent the data we collect from our bird watch ? How much rain can we collect over two weeks? How can we record and analyse our data?	**Communicate** How carefully can you use your mouse to colour inside the lines? Can you complete the quiz by identifying the parts of a plant? **Code** Can you use directional language to direct your beebot on a map ? **Collect** Can you use technology to create a spreadsheet to present data and information?
Year 2	**Communicate:** Can you write a diary entry of Samuel Pepys using Mash Cams? Explore London virtually using i360 Viewer. What can you see? What have you seen that you would like to learn more about?	**Communicate:** Can you contribute to our class blog? Can you take and post a photo using the ipad? **Code:** Can you experiment with 2Calculate and learn how to collect and present data? Espresso: Coding: Different sorts of input	**Communicate**: How can we tell the difference between real and fake news? **Connect**: Troll Stinks Using devices with adults Using kind language online - online bullying

	Can you use the ipads to take photographs? What will you use these photos for? Can you practise your typing skills to write a Christmas haiku? **Code**: Learn how to code by programming on 2code. Can you complete the Air Traffic Control challenges? **Connect:** Jessie and friends: IT safety - playing games online Why is it important to protect your password? Who should you play online games with? What should you do if someone you don't know tries to play online with you?	Can you program a Beebot to move from A to B? Can you use directional and positional language to describe your programming? **Connect:** Describe ways that we can use the internet safely. **Collect**: Present data using 2Calculate and your Huntley and Palmer research. Can you record your biscuit findings on a chart?	**Collect**: Can you use binary questions on 2question to create a branching diagram sorting the anagranimals?
Year 3	**Communicate:** Can I access, open and understand the use of a range of G-Suite tools? **Code:** Block Coding: Can I create sequences, simple animations and simulations using some conditional inputs? **Connect:** Be Internet Legends: Do I know what information is safe to share? **Collect**:	**Communicate:** How can Google Drawings be used to present my ideas? **Code:** Block Coding: What effect do 'What if?' statements have on simulations? **Connect:** Safer Internet Day: How can we work together for a better Internet? **Collect**: How do bar graphs on Google Sheets help represent my data?	**Communicate:** Can I use Google Slides presentations to incorporate background designs, images, and multiple pages? **Code:** Block Coding: Can I design a simulation that includes the skills I have learned this year? **Connect:** Be Internet Legends: In what ways can I be kind on the Internet? **Collect**:

	Can I use Google Sheets for data collection and making simple tables?		Can I use Google Forms to collect data and analyse it?
Year 4	**Communicate**: Can I choose from a range of G-Suite tools to effectively present and communicate my learning? **Code**: Block Coding: How do computers use variables for counting and keeping track? **Connect**: Be Internet Legends: What does a safe password look like and how can I be Internet secure? **Collect**: Can I use Google Sheets to collect data and make more complex tables?	**Communicate**: Can I choose from a range of G-Suite tools to effectively present and communicate my learning? **Code**: Block Coding: Can I use codes to create loops and repetitions in varied simulations? **Connect**: Safer Internet Day: How can we work together for a better Internet? **Collect**: How do line graphs in Google Sheets help represent my data?	**Communicate**: Can I choose from a range of G-Suite tools to effectively present and communicate my learning? Can I use Google Slides presentations to include seamless transitions, images and videos? **Code**: Block Coding: Can I design a simulation that includes the skills I have learned this year? **Connect**: Be Internet Legends: How can I spot what is real and what is fake? **Collect**: Can I use Google Forms to collect data and analyse it?

Year 5	**Communicate:** Can I choose from a range of G-Suite tools to effectively present and communicate my learning? **Code:** Block Coding: Can I use precise numbers to change the speed, direction and location? **Connect:** Be Internet Legends: Am I able to recognise the signs of online scams such as 'phishing'? **Collect**: Can I use Google Sheets for data collection and making more complex tables?	**Communicate:** Can I choose from a range of G-Suite tools to effectively present and communicate my learning? **Code:** Block Coding: Can I write codes that use random number generations within simulations? **Connect:** Safer Internet Day: How can we work together for a better Internet? **Collect**: Can I collect data that can utilise Google Sheets to create pie charts, scatter graphs? (Bread making).	**Communicate:** Can I choose from a range of G-Suite tools to effectively present and communicate my learning? Can I use Google Slides presentations to include embedded links to other sites or databases and speaker presentational prompts? **Code:** Python Coding: How do I print lines of text on a screen and create a range of graphics options? **Connect:** Be Internet Legends: How can I stand up to others online? CEOP - Jigsaw: What information is safe to share? **Collect**: Can I use Google Forms to create a quiz that aids learning and provides feedback?
Year 6	**Communicate:** Can I choose from a range of G-Suite tools to effectively present and communicate my learning? **Code:** Python Coding: How can I use random numbers and create simulations?	**Communicate:** How can Google Earth help me interrogate landscapes, location, travel routes etc. for Ancient Greeks? **Code:** Python Coding: Do I understand how to use inputs and outputs with reusable functions?	**Communicate:** Can I use Google Sites to create a website using a given stimulus? Can I use Google Slides to include embedded links to my own-designed websites and present this in a professional group pitch?

	Connect: Be Internet Legends: How can I spread positivity on the Internet? **Collect:** Can I use Google Sheets to record my river data and present it in the most effective way with justifications?	**Connect:** Safer Internet Day: How can we work together for a better Internet? **Collect:** Can I use Google Sheets to record, track and analyse fitness and performance?	**Code:** HTML Coding: In what ways can HTML coding be effective in real-life scenarios? **Connect:** Online Safety: Can I recognise the potential signs for grooming? ('Alright, Charlie?') **Collect:** Can I digitally conduct market research across the school to inform my choice for my Enterprise Day business?