Computing Curriculum Overview 2023 - 2024

Group	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
FS	**Theme:** All about me **Area of focus:** Online Safety **Key Question:** What does online mean and how can we stay safe? **Skills:** Listen and interact with the Now Press Play headphones about Internet Safety. **Knowledge:** To understand how to stay safe online and seek help from a trusted adult.	**Theme:** Festivals **Area of focus:** Drawing **Key Question:** What colours are used when celebrating Diwali? **Skills:** Explore the different tools and paint brushes. **Knowledge:** To create a picture of a festival the children have learnt about on Paint 3D.	**Theme:** Buildings **Area of focus:** Logging in **Key Question:** How to find information about buildings. **Skills:** Find and retrieve information. **Knowledge:** To login into Microsoft Teams and explore the class page to find pictures placed around Teams.	**Theme:** Transport **Area of focus:** Develop speaking and listening skills **Key Question:** What kind of transport are they describing? **Skills:** Speak on camera to peers and listen to responses. **Knowledge:** To describe a piece of transport and have their peers to guess what they have described.	**Theme:** Minibeasts **Area of focus:** Positional language and direction **Key Question:** What are the features of an insect? **Skills:** Recognise the different features of a minibeast, number of legs and eyes. **Knowledge:** To navigate the robots to the correct insect that is being described to them, e.g. 8 legs – a spider.	**Theme:** The great outdoors **Area of focus:** Use features on a camera **Key Question:** What do plants look like? **Skills:** Understand how to photograph a plant and zoom into it. **Knowledge:** To show the shape, colour and structure of a plant.
1	**Theme:** Communications and network **Area of focus:** Online Safety **Key Question:** How can we stay safe online? **Skills:** Listen and interact with the Now Press Play headphones about Internet Safety. Name people who can support and help them. **Knowledge:** To understand how to stay safe online and understand why we follow rules to stay safe.	**Theme:** Coding **Area of focus:** Code a robot **Key Question:** How can we make a robot change colour? **Skills:** Code a robot to make it change colour and make a noise. **Knowledge:** To use single step instructions to follow the instructions to connect the links to change to colour of the Dot bot.	**Theme:** Art and Design **Area of focus:** Create a picture in Paint 3D **Key Question:** What shapes can be used to create a castle? **Skills:** Use the line tool to create a castle shape. **Knowledge:** To use the brush and pen tools to draw.	**Theme:** Computational thinking **Area of focus:** Minecraft Education Edition **Key Question:** How can we debug a program? **Skills:** To navigate around a world and to build using blocks. **Knowledge:** To Move and navigate around a Minecraft world, using forwards and backwards and to place blocks.	**Theme:** Information technology **Area of focus:** Microsoft Teams assignments **Key Question:** What is an assignment and how to access it? **Skills:** To use technology purposefully to create and retrieve digital content. **Knowledge:** To login to Microsoft Teams and collect the assignment set, complete the quiz and hand it in.	**Theme:** Information Technology **Area of focus:** QR codes **Key Question:** How can QR codes give information? **Skills:** Explore and find answers to questions on QR codes. **Knowledge:** To hunt for QR codes and open the information available on them to answer questions.
2	**Theme:** Computational thinking and network **Area of focus:** Online Safety **Key Question:** What is a digital footprint? **Skills:** Listen and interact with the Now Press Play headphones about Internet Safety. **Knowledge:** To enter the digital world via Now Press Play and make good choices.	**Theme:** Coding **Area of focus:** Use logical reasoning to code **Key Question:** How can a character move using codes? **Skills:** Use appropriate debugging practices when solving problems. **Knowledge:** To explore standard block-based programming actions such as: clicking, drag and drop.	**Theme:** Information technology **Area of focus:** Microsoft Teams assignments **Key Question:** What is a channel and where can it be found? **Skills:** Access the files and channel tab and open resources and use them in a lesson.	**Theme:** Coding **Area of focus:** Code a robot **Key Question:** How can we make a robot move? **Skills:** Use multi-step instructions to connect the links. **Knowledge:** To connect the links in the correct order to make the robot move in different directions.	**Theme:** Art and Design **Area of focus:** Creating pictures on Microsoft Paint 3D **Skills:** Use the brush tool to create different textures in a picture. **Knowledge:** To use the different brushes and change the text colour, size and font, so that it is suitable for the picture.	**Theme:** Computational thinking **Area of focus:** Minecraft Education Edition **Key Question:** How can rooms be created in a building? **Skills:** To build blocks on top of the ground and each other to create a building. **Knowledge:** To build a tower or building and create levels

			Knowledge: To find information for the lesson and use it for an assignment.			inside and create rooms from them.
3	**Theme:** Communications and network **Area of focus:** Online safety, Now Press Play **Key Question:** What is cyberbullying? **Skills:** Identify physical and emotional effects of inappropriate games. **Knowledge:** To think about why 'spoof' websites might exist and know how to check that the information is accurate.	**Theme:** Presenting **Area of focus:** Microsoft PowerPoint **Key Question:** How can you change font size and colour? **Skills:** Find information to paste into the PowerPoint and display it in different ways. **Knowledge:** To know where the different font icon is, change the font size and colour.	**Theme:** Researching **Area of focus:** Searching the internet **Key Question:** How can information be found and retrieved from the internet? **Skills:** Understand differences between search engines and understand why certain ones are safer to use. **Knowledge:** Research questions about the Egyptians and copy and paste the information into Word or PowerPoint.	**Theme:** Computational thinking **Area of focus:** Coding **Key Question:** How can a robot move around obstacles? **Skills:** Use multi-step instructions to connect the links, in the correct order. **Knowledge:** To know how to move the robot the right number of spaces forwards, backwards etc to reach a destination.	**Theme:** Word processing **Area of focus:** Microsoft Word **Key Question:** How can you import images and text? **Skills:** Copy and paste from a text to the document. **Knowledge:** To understand the shortcut copy and paste and use it to move text and pictures from one place to another.	**Theme:** Computational thinking **Area of focus:** Minecraft Education Edition **Key Question:** How can work be evidenced? **Skills:** Use camera and portfolio to evidence work. **Knowledge:** Collaborate to build structures in a multiplayer world and use signs with text to explain what has been built.
4	**Theme:** Brazil fact file. **Area of focus:** Microsoft PowerPoint **Key Question:** How can one slide link to another? **Skills:** Use the hyperlink function to connect one slide to another that is not immediately after it. **Knowledge:** Plan a branching story and use slide transitions insert audio and video files (where possible).	**Theme:** Tudors **Area of focus:** Wakelet **Key Question:** How can we present our information? **Skills:** Use both images and text to present and convey information about the Tudors. **Knowledge:** To understand how to copy and paste images. To understand how to resize and draw text.	**Theme:** Computational thinking. Build an Anglo-Saxon village. **Area of focus:** Minecraft Education Edition **Key Question:** How can the code builder help build? **Skills:** Block coding using code builder to build walls and buildings. **Knowledge:** To use code builder to help build an Anglo-Saxon village.	**Theme:** Spreadsheets **Area of focus:** Microsoft Excel **Key Question:** How does the formula wizard format cells? **Skills:** Enter text and numbers into a spreadsheet. **Knowledge:** Identify and refer to cells by row and column. Use a spreadsheet to record data from pupil-led investigations.	**Theme:** Coding and Computational thinking **Area of focus:** Coding with robots **Key Question:** How does a repeat until command work? **Skills:** Differentiate between situations in which a **Repeat**, **Repeat Forever**, or **Repeat Until** block should be used. **Knowledge:** Use **Repeat Until** blocks to revise code and complete coding challenges in an iterative process.	**Theme:** Coding and Computational thinking **Area of focus:** Coding with Micro: Bits **Key Question:** How can a Micro: Bit flash? **Skills:** Create a flashing heart by coding in the correct steps. **Knowledge:** To understand how software and hardware work together.
5	**Theme:** Coding and Computational thinking **Area of focus:** Coding **Key Question:** How can a Micro: Bit play music? **Skills:** Programme the Micro: Bit to play music.	**Theme:** Communications and network **Area of focus:** Online safety on Now Press Play **Key Question:** What is Childnet SMART CREW? **Skills:** Use the SMART rules as a source of guidance when online.	**Theme:** Spreadsheets **Area of focus:** Microsoft Excel **Key Question:** How does changing data affect the results? **Skills:** Design a spreadsheet for a specific purpose. **Knowledge:** Use further functions including AVERAGE,	**Theme:** Word Processing **Area of focus:** OneNote **Key Question:** How can text appear in OneNote? **Skills:** Dictate and type text into OneNote and upload information about a topic. **Knowledge:** Use the text function, dictate and use	**Theme:** Computational thinking and network **Area of focus:** Microsoft Forms **Key Question:** What is a Forms and how can you create one? **Skills:** Create a Forms about the Victorians and share it with your peers.	**Theme:** Computational thinking **Area of focus:** Minecraft Education Edition **Key Question:** How can NPC's support new players? **Skills:** Use NPCs (non player characters) to provide information in Minecraft world.

	Knowledge: Use block coding to programme simple instructions..	**Knowledge:** To be aware of appropriate and inappropriate text, photographs and videos and the impact of sharing these online. Act out the scenarios in the Now Press Play, using the SMART rules to support choices.	MIN and MAX and create graphs.	immersive reader to check the work.	**Knowledge:** Create a Forms and import pictures from the internet. Create a question using choices, text, rating and dates and share it with the class.	**Knowledge:** To understand how to spawn NPC's into the world and have them give instructions to support and direct players.
6	**Theme:** Animation **Area of focus:** Movie maker/Thinglink **Key Question:** What is stop motion animation? **Skills:** Video a stop motion animation about the Stone Age. **Knowledge:** To create and upload a video from Movie maker into Thinglink and add captions and weblinks onto the video.	**Theme:** Communications and network **Area of focus:** Online safety Now Press Play **Key Question:** In the long-term, what impact does sharing things online have on yourself and others? **Skills:** Know about the consequences of promoting inappropriate content online and how to put a stop to such behaviour when it is experienced or witnessed as a bystander. **Knowledge:** To have a clear idea of appropriate online behaviour and how this can protect themselves and others from possible online dangers, bullying and inappropriate behaviour.	**Theme:** Spreadsheets **Area of focus:** Microsoft Excel **Key Question:** How are Spreadsheets beneficial? **Skills:** Select data and create graphs with appropriate formatting. **Knowledge:** Design their own spreadsheet for a specific purpose and present it appropriately.	**Theme:** Writing and presenting **Area of focus:** Sway **Key Question:** How can images be imported into Sway? **Skills:** Create a presentation on the Lion King and share it with the class. **Knowledge:** Use code to embed videos. Record and add audio files to a Sway.	**Theme:** Coding and Computational thinking **Area of focus:** Coding Micro: Bits **Key Question:** What project can you create using a Micro: Bit? **Skills:** Programme Micro:bit to perform advanced tasks. **Knowledge:** To plan and create projects using previous coding knowledge.	**Theme:** Computational thinking **Area of focus:** Minecraft Education Edition **Key Question:** How can a story be created in Minecraft? **Skills:** Tell a story through features in Minecraft. **Knowledge:** Choose a book to create a cover for or design a cover for your own original story. Start a new world or use the space around the book to build more scenes from the story.