Computing Scheme of Work

EYFS

Autumn A: Cave Baby	Spring A: I am Henry Finch	Summer A: The Extraordinary Gardner
Data Handling -Follow online safety programme. Talk about online safety and how to stay safe online by not clicking on things you are unsure about and understanding who a trusted adult is. -Data handling: -Use the internet to research owls, look at owl photos, sounds and videos.	**Programming** -Programme Beebots over a bridge (Barnaby Bear) - Use the Internet to look at pictures of bridges and rivers - Use the Internet to look at maps and aerial views	**Multimedia** -Take photographs of plant and vegetable growth. -Use laptop programme to move shapes on a screen to make a picture e.g shed, turnip or garden related. Use paint programme to paint garden, plant or vegetable picture. -Use the video camera/tablets to film a video of the children reciting a healthy living themed poem.
Autumn B: Naughty Bus	**Spring B: Billy and the Beast**	**Summer B: The Night Pirates**
Programming -Work in small groups to program Beebots to travel in different directions to reach positions on a farm mat. -Program the Beebots to travel to the pictures to sequence a life cycle. - Code-a pillar: Program to travel around the farm mat/pictures.	**Tech in our lives** -Technology in our lives: looking at technology uses in home and school(Barnaby Bear) - Name different technologies and how we can use this to capture our learning e.g cameras for photographs and ipads for filming. What is a film? Make a film Billy's journey.	**Multimedia** -Photograph own sand sculptures. - Use the internet to look at under the sea creatures. - Filming under the sea small world. - Use paint programme to paint under the sea creatures. - Online Safety

Year 1

Autumn A: Where the Wild Things Are	Spring A: Astro Girl	Summer A: Stanley's Stick/Dinosaur and all that Rubbish
Tech in our lives Technology and my toys (TIL- Choice) link to Max's bedroom and what technology/ toys might be in there.	**Tech in our lives** Discovering Technology (TIL- Core) link to cultural awareness how different job roles use technology. **Multimedia** My Soundscapes (M- Choice) - link to science by looking day sounds and night sounds. Practise keyboard skill by typing up their job descriptions when looking at job roles.	**Multimedia** Describe my toys (M- Core)- teachers can change this unit to describe my animal and then present their final product to another class. **Tech in our lives** Sharing my learning (TIL- Choice) – Discuss what technology Edmund Hillary might have used and compare to what would be used today. Video chat with another class to share learning.
Autumn B: Beegu	**Spring B: The Odd Egg**	**Summer B: Izzy Gizmo/A Walk in London**
Data Handling Counting my information – (DH- Core) link to science- materials. **Programming** Move my Beebot or Codopillar (P- Core) – experience using technology on the WOW starter day. To use the codapillar to move through the story by visiting different places or to use the program to create and draw pictures.	**Programming** My moves on screen (P- Choice) moving a beebot/ codapillar around a town map.	**Multimedia** Filming in the background (M- choice) – Links to science by making a weather report. **Data Handling** Present my weather (DH- choice) – Links to science by making a weather report.

Year 2

Autumn A: Lubna and Pebble	Spring A: The Minpins/ The Bear Under the Stairs	Summer A: Ocean Meets Sky/ Dear Earth
Multimedia Animation – Animate My Animal (Multimedia: Choice): Use this unit to create a stop motion animation of either the rotation of the planets or moon landing. Refer to the use of programming and algorithms (Barnaby Bear). Use J2E code to introduce animation before beginning the stop motion project.	**Tech in our lives** My Internet Search – use the internet to research China. Create a poster or presentation about these. Look at key skills of computing. Use paint to design puppet and costumes linked to Lunar New Year celebrations.	**Multimedia** Multimedia: News report – present my information (Core) My news report (choice) Save my world (choice) Link to destruction of habitats and talk about the importance of protecting the planet, world community, preventing sea pollution. Final project to create a news report about the frog in the Tadpole's Promise.
Autumn B: Jim and the Beanstalk	**Spring B: Iggy Peck Architect/Rosie Revere Engineer**	**Summer B: The Last Stop on Market Street/ The Journey Home**
Tech in our lives Technology in my life (core) – Identify the technology that is used in their lives and homes, looking at how much time is spent online. Think about different environments where they live and how technology would be used in these places. Link to the people in the story and how these characters would use technology. Do I Trust My internet Search (choice) – Could that really happen to Jim? Think about misinformation on the internet.	**Programming** Light up my Lightbot (Programming / Core): Use the program to introduce / reinforce the use and creation of algorithms, to direct the lightbot around the course. Explore my topic with floor robot – Beebot (Programming / Choice): Create bridges when investigating materials in science and rivers when learning about rivers. Use these to create a floor map and direct the beebot to go around and over the bridges. Create a bridge that is strong enough and suitable for a beebot.	**Data Handling** Sorting my animals (Data Handling / Core): Use branching database to identify animals. Talk about types of data, make a paper decision tree. Use a branching database online. Generate questions to be answered. Collect, record and present data. Compare different ways of presenting information. Talk about how the branching database was made and make a paper decision tree. Collect and present data on habitat of animal using a chart.