Whole School Curriculum Map for Computer Science

CLASS	AUTUMN TERM 1	AUTUMN TERM 2	SPRING TERM 1	SPRING TERM 2	SUMMER TERM 1	SUMMER TERM 2
Reception	**We are Marvellous** Internet Safety. How to use equipment safely. Operating simple technology such as toys. Understanding that information can be retrieved from computers.	**We are having fun on the** Farm **I know how to** Use equipment safely including computers. **I can** Use the Interactive Whiteboard to create and adapt.	**What hat shall I Wear?** **I can express my feelings through music** Children complete a simple program using 2Simple Music or other age-appropriate software.	**We are having fun with technology** Children recognise that technology is in the home and school. **I can select and use technology for a particular purpose.**	**Exploring our World** Playing various age related computerised games and electronic toys developing computational thinking.	**I am a teacher** I can teach someone else to play a game or use some sort of computer technology.
Year 1	Internet Safety with Three Discovery. In house Internet Safety – Thinkuknow Sids Top Tips **It's All about Me** Developing Keyboard and Mouse control Explore 2Simple Modelling Toolkit	**We are Celebrating** Create a card electronically Use pictograms to record survey of favourite sandwich fillers	**We are Time Detectives** Make a number of presentation slides, each with a different collection of things from the past and present day, organised according to rules.	**I understand about different types of materials** Understanding instructions – BBC Bitesize Science – Materials (Computational thinking)	**Our Wonderful World** **I am a Robot** Human robots follow instructions. Explore Beebots. Introduce Algorithms. Write, test and debug Algorithms.	**I can film the steps of a recipe.** Using ipads.
Year 2	Internet Safety with Three Discovery. In house Internet Safety – Thinkuknow Sids Top Tips Using text – Diary insert of a Great Explorer.	**Let's Celebrate** Communication and Collaboration. Using text and email to write/send invitations and thank you letters.	**We are Victorian Historians** Research - Toys Exploring how computer games work (computational thinking)	**We are Photographers** Taking, selecting and editing digital images. Victorian playground games.	**We are Problem solvers** How to make a habitat. Using algorithms to solve problems. Write an algorithm for programmable toy to reach its habitat.	**We are Musicians** 2Simple – Explore sounds and instruments to compose an atmospheric symphony relating to a habitat.

Year 3	Internet Safety with Three Discovery. In house Internet Safety – Thinkuknow SMART Learner **We are Musicians** Music Toolkit – composing music in R.E./Music.	**We are Roman Historians** Search technologies. **We are Designers** Design a Roman mosaic using 2Simple	**We are Bug Fixers** **Here, there and everywhere** Creating simple algorithms – Local Study around our school.	**We are Artists** **Paintings, Pictures & Photographs** Digital Maps using Google. Create a Photomontage	**Our Active Planet** **We are Volcanologists** Select, use and combine a variety of software (including internet) on a range of digital devices to accomplish given goal, including collecting, analysing, evaluating and presenting data and information using **Powerpoint**	
Year 4	Internet Safety with Three Discovery. In house Internet Safety – Thinkuknow SMART Learner Using technology responsibly and respectfully **Powerpoint** Collective Worship presentations	**We are Egyptian Historians** Search technologies. **We are Toy designers** Programming electrical toys made in DT. Data programming using **Scratch.** **Powerpoint** Collective Worship presentations	**We are software developers** Logical reasoning and Algorithms **Powerpoint** Learning presentations for parents. Collective Worship presentations	**We are geologists** Digital Maps using Google **Powerpoint** Collective Worship presentations	**We are meteorologists** Data collection & Information **Powerpoint** Collective Worship presentations	**We are Consumer Marketing Researchers** Design packaging for chocolate gift **Powerpoint** Collective Worship presentations using