Science Overview - Year 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Term 1	Science: Forces and Magnets **Lesson 1: Pushes and Pulls** **L.O.** To identify the forces acting on objects. **Y3:Sc: FM2** **Big Idea (Aspect)** **Creativity** (Report & conclude) **Processes** (Forces) **Investigation** (Questioning)	Science: Forces and Magnets **Lesson 2: Faster and Slower** **L.O.** To investigate how a toy car moves over different surfaces. **Y3:Sc: FM1, Sc:WS2, Sc:WS4, Sc:WS5, Sc:WS7** **Big Idea (Aspect)** **Comparison** (Phenomena) **Processes** (Forces) **Investigation** (Questioning, Measurement, Investigation, Report & conclude, Gather & record data) **Creativity** (Report & conclude, Gather & record data)	Science: Forces and Magnets **Lesson 3: Scrapyard Challenge** **L.O.** To sort magnetic and non-magnetic materials **Y3:Sc: FM2, Y3:Sc: FM3, Y3:Sc: FM4** **Big Idea (Aspect)** **Processes** (Forces) **Comparison** (Physical Things) **Investigation** (Report & conclude, Questioning, Gather & record data, Questioning,) **Creativity** (Report & conclude, Gather & record data)	Science: Forces and Magnets **Lesson 4: Magnet Strength** **L.O.** To investigate the strength of magnets. **Y3:Sc: FM6** **Sc:WS2, Sc:WS4, Sc:WS5 Sc:WS7** **Big Idea (Aspect)** **Processes** (Forces) **Investigation** (Questioning, Measurement, Investigation, Report & conclude, Gather & record data, Observations) **Comparison** (Physical Things) **Creativity** (Report & conclude, Gather & record data)	Science: Forces and Magnets **Lesson 5: Magnetic Poles** **L.O.** To explore magnetic poles **Y3:Sc: FM5** **Y3:Sc: FM3, Y3:Sc: FM5, Y3:Sc: FM6** **Big Idea (Aspect)** **Processes** (Forces, Modelling) **Comparison** (Physical Things) **Investigation** (Questioning, Investigation, Report & conclude) **Creativity** (Report & conclude)	Science: Forces and Magnets **Lesson 6: Marvellous Magnets** **L.O.** To observe how magnets attract some materials. **Y3:Sc: FM3, Y3:Sc: FM5, Y3:Sc: FM6** **Big Idea (Aspect)** **Processes (Forces,** Modelling**)** **Comparison** (Physical Things)

Science Overview - Year 3

Term 2	Science: Animals including humans **Lesson 1: Nutrition** **LO:** To sort foods into food groups and find out about the nutrients that different foods provide. **Sc:WS5**, **Sc:WS8**, **Y3:Sc: A1** **Big Idea (Aspect):** **Humankind** (Healthy lifestyle)	Science: Animals including humans **Lesson 2: Food Labels** **LO:** To explore the nutritional values of different foods by gathering information from food labels. **Sc:WS4**, **Sc:WS5**, **Sc:WS6**, **Sc:WS8**, **Y3:Sc: A1** **Big Idea (Aspect):** **Nature** (Identification & classification, Nutrition) **Humankind** (Healthy lifestyle)	Science: Animals including humans **Lesson 3: Skeletons** **LO:** To sort animal skeletons into groups, discussing patterns and similarities and differences. **Sc:WS5**, **Sc:WS8, Y3:Sc: A1, Y3:Sc: A2** **Big Idea (Aspect):** **Nature** (Identification & classification) **Humankind** (Human body, Healthy lifestyle) **Investigation** (Gather & record data) **Creativity** (Gather & record data)	Science: Animals including humans **Lesson 4: Human Skeletons** **LO:** To investigate an idea about how the human skeleton supports movement. **Sc:WS2**, **Sc:WS3**, **Sc:WS4**, **Sc:WS5**, **Sc:WS6**, **Sc:WS7, Y3:Sc: A1, Y3:Sc: A2** **Big Idea (Aspect):** **Nature** (Identification & classification) **Humankind** (Human body, Healthy lifestyle) **Investigation** (Questioning, Measurement, Investigation, Observations, Report & conclude, Gather & record data) **Creativity** (Report & conclude, Gather & record data)	Science: Animals including humans **Lesson 5: Muscles** **LO:** To explain how bones and muscles work together to create movement. **Sc:WS5**, **Sc:WS8**, **Y3:Sc: A2** **Big Idea (Aspect):** **Humankind** (Human body) **Investigation** (Questioning) **Processes** (Modelling)	Science: Animals including humans **Lesson 6**: Investigating **LO:** To design and carry out my own investigation. **Sc:WS1**, **Sc:WS2**, **Sc:WS3**, **Sc:WS4**, **Sc:WS5**, **Sc:WS6**, **Sc:WS7, Y3:Sc: A1, Y3:Sc: A2** **Big Idea (Aspect):** **Humankind** (Human body) **Investigation** (Questioning, Investigation, Report & conclude, Gather & record data) **Creativity** (Report & conclude)

Science Overview - Year 3

Term 3	Science: Rocks **Lesson 1: Types of Rocks** **LO:** To compare different types of rocks. **Y3:Sc: R1** **Big Idea (Aspect)** **Change** (Living things) **Place** (Habitats) **Materials** (Properties and Uses) **Significance** (Significant Events, Significant People)	Science: Rocks **Lesson 2: Grouping Rocks** **LO:** To make systematic and careful observations and group rocks based on their properties. **Y3:Sc: R1, Sc:WS3** **Big Idea (Aspect)** **Change** (Living things) **Place** (Habitats) **Investigation** (Questioning, Measurement, Observations, Report & conclude, Gather & record data) **Creativity** (Report & conclude, Gather & record data) **Materials** (Properties and Uses)	Science: Rocks **Lesson 3:** Fantastic Fossils **LO:** To explain how fossils are formed. **Y3:Sc: R2** **Big Idea (Aspect)** **Significance** (Significant Events) **Materials** (Properties and Uses) **Place** (Habitats) **Change** (Living things) **Processes** (Changes)	Science: Rocks **Lesson 4:** Mary Anning **LO:** To explain Mary Anning's contribution to palaeontology. **Sc:WS8** **Big Idea (Aspect)** **Processes** (Changes) **Materials** (Properties and Uses) **Significance** (Significant Events, Significant People)	Science: Rocks **Lesson 5:** Soil Formation **LO:** To explain how soil is formed. **Y3:Sc: R3** **Big Idea (Aspect)** **Processes** (Changes, Earth) **Change** (Living things) **Place** (Habitats) **Materials** (Properties and Uses)	Science: Rocks **Lesson 6:** Soil Profiles **LO:** To observe carefully and systematically and present my findings using scientific vocabulary. **Sc:WS3**, **Sc:WS6** **Big Idea (Aspect)** **Processes** (Earth) **Investigation** (Questioning, Measurement, Investigation, Observations, Report & conclude, Gather & record data) **Creativity** (Report & conclude, Gather & record data) **Materials** (Properties and Uses)

Science Overview - Year 3

Term 4	Science: Light **Lesson 1: Light and Dark** **L.O.** To recognise that I need light to see things, and that dark is the absence of light. **Y3:Sc: L1** **Big Idea (Aspect):** **Processes** (Phenomena)	Science: Light **Lesson 2: Reflective Surfaces** **L.O.** To investigate which surfaces reflect light. **Y3:Sc: L2, Sc:WS2, Sc:WS5, Sc:WS6, Sc:WS7** **Big Idea (Aspect):** **Investigation** (Questioning, Investigation, Report & conclude) **Creativity** (Report & conclude) **Materials** (Identification and Classification)	Science: Light **Lesson 3: Marvellous Mirrors** **L.O.** To use a mirror to reflect light and explain how mirrors work. **Y3:Sc: L2** **Big Idea (Aspect):** **Materials** (Identification and Classification)	Science: Light **Lesson 4: Sun Safety** **L.O.** To know that light from the sun can be dangerous and that there are ways we can protect our eyes. **Y3:Sc: L3** **Big Idea (Aspect):** **Humankind** (Staying safe)	Science: Light **Lesson 5: Making Shadows** **L.O**. To investigate which materials block light to form shadows. **Y3:Sc: L4, Sc:WS2, Sc:WS5, Sc:WS6, Sc:WS7** **Big Idea (Aspect):** **Creativity** (Report & conclude) **Investigation** (Questioning, Investigation, Report & conclude) **Processes** (Phenomena, Phenomena)	Science: Light **Lesson 6: Changing Shadows** **L.O.** To find patterns when investigating how shadows change size. **Y3:Sc: L4, Y3:Sc: L5, Sc:WS2, Sc:WS3, Sc:WS4, Sc:WS5, Sc:WS6, Sc:WS7** **Big Idea (Aspect):** **Investigation** (Measurement, Questioning, Observations, Investigation, Report & conclude) **Creativity** (Report & conclude) **Processes** (Pattern seeking, Phenomena, Phenomena)

Science Overview - Year 3

Term 5	Science: Plants **Lesson 1: Parts of Plants** **LO:** To name the different parts of flowering plants and explain their jobs. **Y4:Sc: P1** **Big Idea (Aspect):** **Nature** (Parts & function, Parts & function)	Science: Plants **Lesson 2: What Do Plants Need to Grow Well?** **LO:** To set up an investigation to find out what plants need to grow well. **Y4:Sc: P2, Sc:WS1, Sc:WS2** **Big Idea (Aspect):** **Investigation** (Questioning, Investigation, Observations)	Science: Plants **Lesson 3: What Have You Found Out?** **LO:** To record my observations and present the results of my investigation using scientific language. **Y4:Sc: P2, Sc:WS5, Sc:WS9** **Big Idea (Aspect):** **Nature** (Identification & classification, Parts & function) **Investigation** (Questioning, Measurement, Observations, Report & conclude, Gather & record data) **Creativity** (Report & conclude, Gather & record data)	Science: Plants **Lesson 4: Moving Water** **LO:** To investigate how water is transported in plants **Y4:Sc: P3, Sc:WS2, Sc:WS3, Sc:WS5, Sc:WS6, Sc:WS7** **Big Idea (Aspect):** **Nature** (Parts & function, Parts & function) **Investigation** (Questioning, Measurement, Investigation, Observations, Report & conclude) **Creativity** (Report & conclude)	Science: Plants **Lesson 5: Fantastic Flowers** **LO:** To name the different parts of a flower and explain their role in pollination and fertilisation. **Y4:Sc: P4, Sc:WS7** **Big Idea (Aspect):** **Nature** (Parts & function, Parts & function) **Investigation** (Observations)	Science: Plants **Lesson 6: Life Cycle** **LO:** To understand and order the stages of the life cycle of a flowering plant. **Y4:Sc: P4** **Big Idea (Aspect):** **Nature** (Parts & function, Survival) **Investigation** (Questioning)

Science Overview - Year 3

Term 6	Science: Scientists and Inventors **Lesson 1: The Plant Hunters** **L.O.** To find out about the way new plants arrived in our country. **Y4:Sc: P2** **Big Idea (Aspect):** **Significance** (Significant People, Significant Events)	Science: Scientists and Inventors **Lesson 2: Marie Curie** **L.O.** To explain how Marie Curie's work on x-rays helps us identify bones. **Y3:Sc: A2** **Big Idea (Aspect):** **Significance** (Significant People) **Humankind** (Human body)	Science: Scientists and Inventors **Lesson 3: George Washington Carver** **L.O.** To explain how George Washington Carver helped farmers to grow crops. **Y4:Sc: P2** **Big Idea (Aspect):** **Significance** (Significant People, Significant Events)	Science: Scientists and Inventors **Lesson 4: Fossil Finders** **L.O.** To explain how fossils can be used to find the age of rocks. **Y3:Sc: R1, Y3:Sc: R2** **Big Idea (Aspect):** **Processes** (Changes) **Materials** (Properties and Uses)	Science: Scientists and Inventors **Lesson 5: Journey to the Centre of the Earth** **L.O.** To describe what Inge Lehmann discovered about the Earth's core **Y3:Sc: R1** **Big Idea (Aspect):** **Significance** (Significant People) **Materials** (Properties and Uses)	Science: Scientists and Inventors **Lesson 6: Concave and Convex** **L.O.** To investigate how images change in concave and convex mirrors. **Y3:Sc: L2** **Big Idea (Aspect):** **Materials** (Identification and Classification) **Processes** (Phenomena) **Lesson 7: Electromagnets** **L.O.** To explore how electromagnets attract some materials. **Y3:Sc: FM3** **Big Idea (Aspect):** **Processes** (Forces) **Comparison** (Physical things)