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**3 Year Long Term Overview**

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| **Subject:**  **Science** | **Autumn Term Theme** | **Spring Term**  **Theme** | **Summer Term Theme** |
| **Year 1** | ***Fair Trade***  Properties and uses of materials, changing materials (chocolate – states of matter and changing states) Biscuit dunking experiment, sugar experiments  **Being a Food Scientist** – WK Kellogg/Ruth Oniang’o  **LOtC:** Quarry Bank Mill – cotton trade | ***My Environment***  Energy and the Earth’s resources, structure of Earth, weather, water cycle, climate change  **Being an Environmental Scientist** – John Muir/Rachel Carson  **LOtC:** Gilmoss Recycling Centre, Southport Eco Centre, National Wildflower Centre- Knowsley | ***Space***  Earth and beyond, solar system, forces  **Being an Astronaut** – Tim Peake/Mae C Jemison  **LOtC** – Jodrell Bank, Spaceport, Liverpool World Museum (planetarium) |

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| **Year 2** | ***Around the World***  Rocks, soils, fossils, dinosaurs, evolution  Habitats and adaptation  **Being a palaeontologist:** Charles Darwin/Mary Anning  **LOtC** – Manchester Natural History Museum, Formby Squirrel Park/Beach, Beacon, Tawd Valley, | ***Lights Camera Action***  Light, sound and electricity  **Being an inventor** - Thomas Edison/ Ada Lovelace  **LOtC** – Rock fm, theatres, Chapel Gallery, Museum of Science and Industry, e-rooms, | ***Farm to Fork***  Plants, life cycle of a plant, plant reproduction, parts of a plant, how plants grow – what need, photosynthesis, variation,  Diet, nutrition and digestion  Acids, alkalis and neutralisation – farming/digestion  **Being an Agricultural Scientist** - Norman Borlaug/George Washington Carver  **LOtC** – Rainford Historical Centre, Horticulture |
| **Year 3** | ***Best of British***  **Being a Physicist - Isaac Newton** Forces – gravity, speed, magnets, friction, air resistance, buoyancy  **Being a Forensic Scientist - Alec Jeffreys** CSI – fingerprints, microscopes, chromatography, identifying substances, ‘blood splatters’, textiles/fibres  **LOtC** – Police visit, MOSI, Liverpool Museum, Airport Viewing, | ***Looking After Me***  **Human Body** – breathing, characteristics and inheritance, cells, organs and systems, reaction times, skeleton and muscles, healthy living, teeth, senses  **Being a Health Pioneer** - Alexander Fleming/Florence Nightingale  **LOtC** – visit by healthcare professional, gym, | ***Animal Kingdom***  Classification and variation, Life cycles, food chains/webs, what animals need to survive, animal communication  **Being a Zoologist** – David Attenborough/Jane Goodall  **LOtC** – Chester Zoo, Blackpool Zoo, Knowsley Safari Park, Martin Mere, Pet Shops, visit from a vet, bug hunts/bird watches/surveys |