

**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, evolutionHabitats 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 digestionAcids, 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 |