**Science - Curriculum Map Year 7**

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| Y7 | Half  term 1 | Half  term 2 | Half  term 3 | Half  term 4 | Half  term 5 | Half  term 6 |
| Topics | Introduction to science,  Matter. | Speed,  Cells,  Energy. | Materials,  Reproduction. | Electricity,  Science week, | Sound,  Earth & universe. | Climate change.  Science project. |
| Key terms | Safety, equipment, investigations, recording data, graph skills, analysing data, evaluating data.  States of matter, state properties, changing state, melting, condensing, temperature. | Gravity, mass vs. weight, asteroids, contact & non-contact forces, balanced & unbalanced forces, speed, relative motion, distance time graphs.  Cell structure, microscopes, specialised cells, diffusion, unicellular & multicellular, organisation.  Energy stores, energy efficiency, power, energy in fuels, energy resources, photosynthesis, respiration. | Pressure, diffusion in gases, diffusion in liquids, solubility, filtration, evaporation, distillation, chromatography.  Reproductive organs, puberty, adolescence, menstrual cycle, fertilisation, foetus development, pregnancy. | Static electricity, current, potential difference, series & parallel circuits, resistance. | Properties of waves, wave speed, sound waves, pitch, frequency, amplitude, the ear, ultrasound.  Structure of the Earth, day & night, seasons, solar system, phases of the moon. | The greenhouse effect, the carbon cycle, global warming, recycling. |
| Assessment | Assessment modelling – practice assessment with no grade given. | N/A | N/A | Assessment 2 – written paper on recent topics followed by classroom DIRT. | Assessment 3 – written paper on recent topics followed by classroom DIRT. | N/A |
| Embedding learning | How science works 1,  How science works 2,  How science works 3,  Matter 1. | Matter 2,  Matter 3,  Speed 1,  Speed 2,  Cells 1,  Cells 2. | Energy 1,  Energy 2,  Energy 3,  Materials 1,  Materials 2,  Materials 3. | Assessment based,  Assessment based,  Reproduction 1,  Reproduction 2,  Electricity 1. | Electricity 2,  Sound 1,  Sound 2,  Assessment based,  Assessment based. | Sound 1,  Sound 2,  Earth & universe 1,  Earth & universe 2,  Climate change 1,  Climate change 2. |
| Awareness days | Recycle week 20/9, National Poetry Day 7/10,  Black History Month. | World Kindness Day 13/11,  Pride in STEM Day 18/11,  No pen day. | Holocaust Memorial Day 27/1,  Mental Health Awareness week 7/2. | World Book Day 23/4, International Women’s Day 8/3, British Science week 11/3. |  | World Environment Day 5/6. |