**Science - Curriculum Map Year 7**

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| Y7 | Half term 1 | Halfterm 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. |