**Science - Curriculum Map Year 8**

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| Y8 | Half  term 1 | Half  term 2 | Half  term 3 | Half  term 4 | Half  term 5 | Half  term 6 |
| Topics | Climate change,  Atoms. | Movement & breathing,  Pressure,  Heat transfer. | Periodic table,  Digestion. | Electromagnets,  Rocks,  Science week. | Light,  Variation & inheritance. | Science project,  Sound. |
| Key terms | The greenhouse effect, the carbon cycle, global warming, recycling.  Atoms, elements, compounds, mixtures, chemical formula, chemical reactions, purity. | Cells, bones, muscles, respiratory system, lungs, smoking.  Friction, drag, squashing & stretching, moments, gas pressure, pressure in liquids, pressure in solids.  Energy & temperature, conduction, convection, radiation. | Periodic table, groups, periods, alkali metals, halogens, noble gases.  Digestive system, enzymes, nutrients, food tests, balanced diet, drugs. | Magnetic fields, electromagnets, uses of electromagnets.  Sedimentary rocks, igneous rocks, metamorphic rocks, rock cycle, ceramics, extracting metals. | Light, reflection, refraction, concave & convex lenses, the eye, prisms, colour, transverse waves, electromagnetic spectrum.  Variation, genetic inheritance, DNA, characteristics, genes, mutations. | Properties of waves, wave speed, sound waves, pitch, frequency, amplitude, the ear, ultrasound. |
| Assessment | Assessment 1 – written paper on recent topics followed by classroom DIRT. | N/A | Assessment 2 – written paper on recent topics followed by classroom DIRT. | N/A | Assessment 3 – written paper on recent topics followed by classroom DIRT. | N/A |
| Embedding learning | How science works 1,  How science works 2,  Assessment based,  Climate change 1,  Climate change 2,  Earth & universe 1,  Earth & universe 2. | Atoms 1,  Atoms 2,  Atoms 3,  Movement & breathing 1,  Movement & breathing 2,  Pressure 1,  Pressure 2. | Heat transfer 1,  Heat transfer 2,  Periodic table 1,  Periodic table 2,  Assessment based,  Digestion 1. | Digestion 2,  Electromagnets 1,  Electromagnets 2,  Science week,  Rocks 1,  Rocks 2. | Cells 1,  Electricity 1,  Matter 1,  Light 1,  Assessment based,  Light 2. | Variation & inheritance 1,  Variation & inheritance 2,  Project 1,  Project 2,  Sound 1,  Sound 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. |