**Science - Curriculum Map Year 8**

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| Y8 | Half term 1 | Halfterm 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. |