**Year 3**

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| **Biology - Animals including humans**  **Understand the function of a skeleton and muscles** |
| To know the names of some bones (skull, spine, ribs) |
| To know the purpose of the skeleton and muscles – movement, protection, support |
| **Biology – Animals including humans**  **Understand the importance of nutrition for animals, including humans**  **To know animals do not make their own food** |
| To know the nutrients found in food: carbohydrates, protein, vitamins, minerals, fats, sugars, fibre |
| To know a balance of nutrients is needed to stay healthy |

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| **Biology - Plants**  **Know the functions of different parts of flowering plants** |
| To explain the function of the roots, stem/trunk, leaves & flowers |
| To know the requirements plants, need to grow: air, light, water, nutrients from soil and room to grow |
| To know that different plants require different amounts of air |
| To know that water travels from the soil, to the roots to the stem and the leaves |
| To understand the term pollination (using male and female parts) |
| To know 3 forms of seed dispersal – wind, animal, water (river/stream/canal) |

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| **Chemistry – Rocks**  **To identify and compare rocks, fossils and soils** |
| To know that rock is a naturally occurring material |
| To know the name of some types of rock including **marble, chalk, granite, sandstone, slate** |
| To know examples of **igneous** (granite), **sedimentary** (sandstone, chalk) and **metamorphic** (slate marble) rock |
| To understand the vocabulary of (grain, crystals, layers, hard, soft, texture, absorb water) to describe the observable features of the named rocks |
| To understand how a fossil is formed |
| To understand that soils are a mixture of rocks and living/dead matter |

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| **Physics - Light**  **To understand light is an energy that can be manipulated** |
| To understand darkness is the absence of light |
| To know how we see objects in light |
| To understand that it is dangerous to view the sun directly and state precautions used to view the sun, for example in eclipses |
| To know the terms transparent, translucent and opaque |
| To understand how shadows are formed |
| To understand how shadows, change size |

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| **Physics – Forces and magnets**  **To know that forces are a push or a pull in a direction and understand magnetism** |
| To know examples of forces in everyday life |
| To understand that objects can move differently on different surfaces |
| To know that magnets have two poles which attract and repel |
| To understand that not all metals are magnetic/attracted to a magnet |