|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **What are the aims and intentions of this curriculum?**  That children are:   * allowed to explore and discover the science in the world around them. * are provided with the opportunities to develop their curiosity and to ask questions. * are taught the skills they need to find answers to their own questions. * are able to independently apply their skills to find the answers. | | | | |
| **Term** | **Topic** | **Knowledge** | **Skills** | **Assessment** |
| Autumn | Evolution & inheritance | Know that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.  Know that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.  Know how animals and plants have adapted to suit their environment in different ways and that adaptation may lead to evolution. | Recognise  Identify  Describe  Explore  Ask  Research  Conclude  Design  Compare |  |
| Spring | Living things & their habitats | Know how living things are classified (taking account of similarities and differences in observable characteristics (include plants, animals and micro-organisms) | Describe  Give reasons  Observe  Classify  Create  Report  Present |  |
| Summer | Electricity | Know that the brightness of a lamp or the volume of a buzzer is associated with the number and voltage of cells used in the circuit.  Know that there are variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.  Know the symbols for components used in a series circuit. | Notice  Compare  Recognise  Use (symbols)  Create (circuit)  Explore  Predict  Observe  Explain  Fair test  Invent (ways of measuring the brightness of a bulb)  Ask (follow up questions) |  |
| Summer  **Principal Focus**   * Exploring and talking about their ideas * Asking their own questions * Recognise abstract ideas and how these help them understand and predict * Recognise how scientific ideas change over time * Answer questions by selecting an appropriate way to do that * Draw conclusions based on their data and explain findings | Light | Know that light appears to travel in straight lines. Know that objects are seen because they give out or reflect light (which travels in straight lines) into the eye.  Know that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. Know that shadows have the same shape as the objects that cast them (because light travels in straight lines). | Recognise  Explore  Predict  Compare (patterns)  Observe  Explain |  |