**Science Planner- Early- Incorporating Benchmarks**

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| **Curriculum Organisers** | |  |  |  |  |
| **Benchmarks to support judgements** |
| **E's and O's** | **Planned learning Activities** | **Evaluation** |
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| **Planet Earth** | **Biodiversity and interdepend ence** | I have observed living things in the environment over time and am becoming aware of how  they depend on each |  | * Explores and sorts objects as living, non­ living or once living. * Describes characteristics of livings things and how they depend on each other, for example, animals which depend on   plants for food. |  |
|  | other.  SCN 0-01a |
|  | I have helped to grow plants and can name their basic parts. I can talk about how they grow and what I need to do to look after them.  SCN 0-03a |  | * Explores, observes and discusses basic needs of plants and what they   need to grow including |  |
|  | water, heat, sunlight and  soil. |
|  | * Demonstrates understanding of how plants grow from seeds. |
| **Energy sources and sustainability** | I have experienced, used and described a wide range of toys and common appliances. I can say what makes it go and say what they do when they work.  SCN 0-04a |  | * Ask questions and describes what can 'make things go', for example, batteries, wind-up toys   and sunlight. |  |
|  | * Talks about toys and common appliances and what they do when   they work, for example,  produce heat, light, movement or sound. |

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|  | **Processes of the planet** | By investigating how water can change from one form to another, I can relate my findings to everyday experiences.  SCN 0-05a |  | * Investigates the different properties of water and shares their findings with others. * Talks about water in nature and how it influences their everyday lives. * Identifies three main states of water (ice, water and steam) and uses scientific vocabulary such as 'melting', 'freezing' and 'boiling' to describe   changes of state. |  |
|  | **Space** | I have experienced the wonder of looking at the vastness of the sky, and can recognise the sun, moon and stars and link them to daily patterns of life.  SCN 0-06a |  | * Describes how the rotation of the Earth in relation to the sun gives us day and night. * Talks about how the pattern of night and day changes over the course of a year. |  |
| **Forces, electricity, and waves** | **Forces** | Through everyday experiences and play with a variety of toys and other objects , I can recognise simple types of forces and describe their effects.  SCN 0-07a |  | * Explores and sorts toys and objects into groups according to whether they need to be pushed or pulled. * Measures, using simple equipment, how the   movement of an object is |  |

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|  |  |  |  | affected by the size of the force or the weight of the object.   * Demonstrates, through play, how a force can make an object stay still, start to move, speed up, slow down and change   shape. |  |
| **Electricity** | I know how to stay safe when using electricity. I have helped to make a display to show the importance of electricity in our daily lives.  SCN 0-09a |  | * Groups objects into those which get electricity either from mains electrical sockets or alternative sources, such as batteries and solar cells. * Talks about the importance of electricity in their daily lives. * Identifies the risks that can be caused by electricity and recognises   how to stay safe. |  |
| **Vibrations and waves** | Through play, I have explored a variety of ways of making sounds.  SCN 0-11a |  | * Predicts, then investigates, ways to make sounds louder and quieter. * Identifies different sources of sound. |  |
| **Biolog ical** | **Body systems and cells** | I can identify my senses and use them to explore the world around me.  SCN 0-12a |  | * Identifies specific parts of the body related to each of the senses. |  |

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|  |  | *HWB 0-47b* |  | * Uses their senses to describe the world around them, giving examples of things they see, hear,   smell, taste and feel. |  |
|  | **Inheritance** | *HWB 0-47a* |  |  |  |
| **Materials** | **Properties and uses of substances** | Through creative play, I explore different materials and can share my reasoning for selecting materials for different purposes.  SCN 0-15a |  | * Explores and sorts materials into different groups depending on their properties, for example, whether they are strong, smooth, rough and if they float or sink. * Justifies the selection of appropriate materials for different uses based on   their physical properties. |  |
| **Topical science** | **Topical science** | I can talk about science stories to develop my understanding of science and the world around me.  SCN 0-20a |  | * Talks about the science they encounter in their everyday experiences. * Explores, through role­ play, how science and science skills are used in   a variety of jobs. |  |