Science Knowledge and Skills Coverage. (Year 2)

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| Content/  Knowledge | Animals Including Humans  I notice that animals including humans have offspring which grow into adults. I can find out about and describe the basic needs of animals including humans for survival. Describe the importance for humans of exercise, eating the right amounts of different types of food | Living Things and Habitats  Explore and compare the differences between things that are living, dead and things that have never been alive. Identify most living things live in habitats to which they are suited and describe how different habitats provide for basic needs of different kinds of animals and plants and how the depend on each other. Identify and name a variety of plants and animals in their habitat, including microhabitats. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain and identify and name different sources of food. | Materials  To identify and compare the suitability of a variety of everyday materials including wood, metal, plastic, glass, brick, rock, paper, cardboard for particular uses. I can find out how the shape of solid objects made from materials can be changed by squashing, bending, twisting and stretching. | Plants  To observe and describe how seeds and bulbs grow into mature plants. Find and describe how plants need water, light and a suitable temperature to grow and stay healthy. |
| Scientific Enquiry | Icon  Description automatically generated  Identify and classify animals  Icon  Description automatically generated  Identify habitats  Screen Clipping  Research facts about animals  Screen Clippingfind out about and describe the basic needs of animals, including humans, for survival (water, food and air)  Icon  Description automatically generatednotice that animals, including humans, have offspring which grow into adults  Icon  Description automatically generateddescribe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. | Icon  Description automatically generated  .  explore and compare the differences between things that are living, dead, and things that have never been alive  Icon  Description automatically generated  identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other  Icon  Description automatically generated  ♣ identify and name a variety of plants and animals in their habitats, including microhabitats  Icon  Description automatically generated♣ describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. | Icon  Description automatically generated  Notice patterns between materials  Icon  Description automatically generated  Comparative test  .  Icon  Description automatically generated  ♣ identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.  Icon  Description automatically generated ♣ find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching | Icon  Description automatically generated♣ observe and describe how seeds and bulbs grow into mature plants  Screen Clippingfind out and describe how plants need water, light and a suitable temperature to grow and stay healthy. |
| Working Scientifically/ Enquiry skills | Icon  Description automatically generated  Ask questions    Icon  Description automatically generated  Making a prediction  Screen Clipping  Observing and measuring | Screen Clipping  Ask questions  Screen ClippingRecord observations  Use tables and pictograph  Screen Clipping  Communicate findings | Screen Clipping  Identify and classify materials.  Icon  Description automatically generated  Carry out simple comparative tests.  Icon  Description automatically generated  Predicting best material  Icon  Description automatically generated  Evaluate findings of tests | Screen Clipping  Use tables and pictograph  Screen Clipping  Icon  Description automatically generatedObserving and measuring  Carry out simple comparative tests. |
| Ideas | 1- Matching animals with offspring.  2- Lifecycles  3- Using IT to answer questions  4- Animal menus  5- Investigating which exercises raise pulse rate.  6- Investigating food groups and tasting foods.  Sort foods according to group.  food diaries. | 1- Sort, living, dead and never been alive. Egg box material hunt.  2- Sorting animals according to its biome.  3- Exploring different biomes. Who am I clues?  Biome home learning  4- Micro habitats and mini beast hunting.  5- completing tables for extraordinary creatures. Creating own creature and habitat.  6- Food chain drama, draw food chains. | 1. Mystery bag. Make material monsters. Sort materials  2. Materials hunt.  3. Materials drama and modelling,  Silly materials.  4- comparing materials for 3 little pigs house.  5- Humpty dumpty investigation- make a protective sleeping bag using best material.  6- John Dunlop investigating bouncy materials. | 1. Identify parts of the plant- dice game.  2. Sam plants a sunflower book- lifecycle of a sunflower and strawberry.  3. Observing seeds and observational drawings. Classifying seeds.  4. Seed hunt and identifying seeds.  5. Conditions for growth, seeds from the kitchen  6. Investigation into plant growth using different soils.  7. Investigating bulbs and recording seed growth/germination.  8- Conditions for growth experiment- cress.  9. Evaluating test.  10. Plants in different climates, how do plants adapt to their environment?  11. Explore famous botanists. Outdoor learning- tree survey  12. Evaluate learning. |