**Science Overview**

**Cathcart Street Primary School 2023-2024**

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|  | **Autumn** | **Spring** | **Summer** |
| **Science – Year 2** | **Year 2 NC Objectives** | **Year 2 NC Objectives** | **Year 2 NC Objectives** |
| **Animals including Humans - Biology**   * notice that animals, including humans, have offspring which grow into adults. * find out and describe the basic needs of animals, including humans, for survival (water,food and air). * describe the importance for humans of exercise, eating the right amounts of different types of foods and hygiene. (NB: PSHE link) | **Living things and their habitats - Biology**   * explore and compare the differences between   things that are living, dead, and things that have never been alive   * 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   * 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 | **Uses of Everyday Materials – Chemistry**  Pupils should be taught to:   * identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses * find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. * (Scientist Charles Macintosh) |
| **Ongoing**  **Plants - Biology**   * observe and describe how seeds and bulbs grow into mature plants. * find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.   **Living things and their habitats - Biology**   * identify and name a variety of plants and animals in their habitats, including micro-habitat | | |
| **Year 2**  **Key Learning** | **Year 2**  **Key Learning** | **Year 2**  **Key Learning** |
| **Animals including Humans - Biology**   * To know the basic stages in a life cycle for animals * To find out and describe the basic needs of animals, including humans, for survival (water, food and air). * To know the 5 main food groups that make up a balanced diet and identify food that fits into each of these groups. * To describe the importance of eating the right * amounts of different types of foods and hygiene. (NB: PSHE link) | **Living things and their habitats - Biology**   * To be able to classify things by living, dead or never lived. * To know that a habitat provides shelter, food and water for the plants and animals living there. * To know some different sources of food for animals. * To know that the way that animals obtain their food from plants and other animals can be shown in a food chain starting with a plant. | **Uses of Everyday Materials - Chemistry**   * To be able to name a wider variety of materials than in Year 1 and describe their properties. * To know how some materials are used for more than one thing. * To be able to explain what makes materials suitable or unsuitable for a particular use. * To be able to change a solid object by applying a particular force. |
| **Working Scientifically** | **Animals including Humans**   * To use their experiences of the world around them and information gained from secondary resources to suggest appropriate answers to questions. * To make careful observations and notice change. | **Living Things and Their Habitats**   * To use simple secondary sources to investigate how animals are suited to different habitats. | **Materials**   * To use observations and testing to compare the uses of everyday materials. * To be involved in planning how to use the resources provided to answer questions e.g. which is the most absorbent material? * To use practical resources to perform a simple comparative test. |
| **Vocabulary** | **Key Vocabulary (Animals inc Humans)**  Survival, Offspring, Reproduce, Growth, Child, Young/Old  Exercise, Hygiene, Germs, Disease, Nutrition, energy,  diet, dehydrate  Food types- fruit and vegetables, carbohydrates, dairy,  proteins, oils/fats | **Key Vocabulary (Living things and their habitats)**  Life processes, Living, dead, never living, suitable,  survive, depend, food chain, predator, prey, food  sources, shelter, habitat, microhabitat, | **Key Vocabulary (Uses of Everyday Materials)**  **Materials –**  rough/smooth, flexible/rigid, strong/weak  transparent/opaque  suitability, purpose. |
| **Key Vocabulary (Plants)**  light, shade, temperature, nutrition, sunlight, growth, germination, sprout, shoot, mature, seed, bulb, condition, seedling. | | |