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| Year 2 | Science |
|  | Autumn topic: Uses of everyday materials | Spring Topic: Living things and their habitats | Summer topic: Animals including humans |
| National curriculum statements | Pupils should be taught to1 Materials-Identify and compare the suitability of a variety of everyday materials for particular uses.-Find out how the shapes of solid objects made from some materials can be changed. | Pupils should be taught toLiving things and their habitats.-To explore the differences between things that are living, dead and things that have never been alive.-To know that living things live in habitats to which they are suited.-Identify and name a variety of plants and animals in their habitats including micro habitats.-Describe and understand simple food chains.2 Plants-Observe and describe how season bulbs grow into mature plants.-Find out describe the conditions plants need to grow. | Pupils should be taught to -Notice that animals, including humans, have offspring which grow into adults.-Find out about and describe the basic needs of animals, including humans, for survival (water, food and air).-Describe the importance for humans for exercise, eating the right amounts of food, and hygiene. |
| Retrieval(to support new learning) | Materials- Distinguish between the object and the material from which it is made. Identify what materials objects are made from. Identify and name a variety of everyday materials. Describe properties of materials and compare and group them on the basis of this. | Plants- Identify a variety of common and garden plants. Identify the basic structure of plants and trees. | Identify a variety of common animals eg fish, amphibians, birds and mammals.Understand the terms carnivore, herbivore and omnivore. |
| Knowledge statements | Materials-To identify and compare the suitability of a variety of everyday materials.-To identify the uses of everyday materials and record observations.-To compare the suitability of everyday materials.-To know that the shapes of objects from some materials can change.To understand the process of recycling.-To know about the inventor John Mcadam. | Living things and their habitats-To be able to compare the differences between things that are living, dead and have never been alive.-To identify and name a variety of plants and animals in our local habitat.-To identify mini beasts in micro habitats.-To describe habitats around the world and describe animals that live in them.-To understand how living things in a habitat depend on each other.-To understand a variety of simple food chains.The Environment-To understand climate change by carrying out a simple experiment.-To sort litter into recycling groups based on their materials.-To carry out a survey to persuade people to use less energy.-To identify and classify Rainforest animals.-To research about endangered animals. Plants-To know what plants need to grow.-To observe and describe a seed.-To understand the life cycle of a plant.-To know what plants need to stay healthy.-To know how plants grow in hot, dry or cold places. | -To know that animals give birth to live young, some produce eggs that hatch outside of the body and some within the body.-To know how animal offspring grow into adults through the use of life cycle diagrams.-To know the stages of the human life cycle.-To know the needs of all animals including humans for survival.-To understand the need for physical activity in humans.-To know what constitutes a healthy diet. |
| Vocabulary | MaterialsProperties, suitability, material, recycle, inventor, identify, metal, plastic, glass etc. | Living, dead, never alive, habitats, food chain, micro habitats, conditions.Climate change, global warming, flooding, greenhouse gases, drought, hurricane. PlantsGermination, seed dispersal, life cycle, temperature, nutrition, observe. | Life cycle, offspring, young, diet, germs, hygiene, pulse, nutrition, disease. |
| Cultural capital and local resources | Woodland and school environment. | Woodland and school environment. | Playground for exercise activities( link with DT food technology - trip to Pizza Express) |