| **Science**    **Core Curriculum Coverage**  **Class 2**  **YEAR A** | | | |
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|  | **Autumn Term** | **Spring term** | **Summer Term** |
| **Unit of work** | Animals including humans  Seasonal Change | Everyday materials  Plants - Needs and growth | Animals including humans - Bodies and health  Living things and their habitats |
| **Prior Learning** | In EYFS children looked at freezing and what happens when it is cold. They’ve looked at changes during their Autumn term. | In EYFS children have looked at naming different materials and have used these practically.  Children have looked at plants and how they look after them. | Children have previously looked at mini-beasts and have completed observational drawings.  They have learned about themselves and body parts. |
| **Core Learning**  **Knowledge** | Animals including humans   1. Can I notice that animals, including humans, have offspring which grow into adults? 2. Can I Identify, name, draw and label the basic parts of the human body and say which of the body is associated with each sense? 3. Can I Identify, name, draw and label the basic parts of the human body and say which of the body is associated with each sense? sound 4. Can I find out about and describe the basic needs of animals, including humans, for survival (water, food and air)? 5. Can I use my senses to identify? 6. Can I describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene?   Seasonal Change   1. Can I observe changes across the four seasons? 2. Can I observe and describe weather associated with the seasons and how day length varies? weather 3. Can I observe and describe weather associated with the seasons and how day length varies? daylight 4. Can I observe changes across the four seasons? (Rainfall) 5. Can I observe and describe weather associated with the seasons? (Wind) 6. Can I observe and describe weather associated with the seasons? (Temperature) | Everyday materials   1. Can I Distinguish between an object and the material from which it is made? 2. Can I describe the simple physical properties of a variety of everyday materials? 3. Can I Compare and group together a variety of everyday materials on the basis of their simple physical properties? 4. Can I Compare and group together a variety of everyday materials on the basis of their simple physical properties? 5. Can I Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses? 6. Can I Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses?   Plants   1. Can I Identify and name a variety of common wild and garden plants, including deciduous and evergreen tree? 2. Can I Observe and describe how seeds and bulbs grow into mature plants ? 3. Can I find out and describe how plants need water, light and a suitable temperature to grow and stay healthy? 4. Can I Observe and describe how seeds and bulbs grow into mature plants? cress 5. Can I Observe and describe how seeds and bulbs grow into mature plants ? beans 6. Consolidation   Sketch and talk about what they see, including facts about the stem and leaves and the seed coat left at the base of each cress plant.  Be able to talk about what the seed has produced and how the plant grew  Notice and explain the differences between the plant left to grow in the classroom and the cress left in the cupboard. | Animals including humans   1. Can I Identify and name a variety of common animals that are birds, fish, amphibians, reptiles, mammals and invertebrates? 2. Can I Consider the differences/similarities between what humans want and what they need to survive? 3. Can I Describe and compare the structure of a variety of common animals? 4. Can I Notice that animals, including humans, have offspring which grow into adults? 5. Can I Identify, name a variety of common animals that are carnivores, herbivores and omnivores? 6. Can I Describe and compare the structure of a variety of common animals (birds, fish, amphibians, reptiles, mammals and invertebrates?   Living things and their habitats?   1. Can I 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? 2. Can I 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? 3. Can I Explore and compare the differences between things that are living, dead and things that have never been alive? 4. Can I Identify and name a variety of plants and animals in their habitats, including micro-habitats? 5. Can I 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? fish 6. Can I describe simple food chain, and identify and name different sources of food? |
| **Core Learning**  **Skills** | Working Scientifically   * Ask simple questions and recognise that they can be answered in different ways * Observe closely, using simple equipment * asking simple questions and recognising that they can be answered in different ways * observing closely, using simple equipment * performing simple tests * using their observations and ideas to suggest answers to questions * gathering and recording data to help in answering questions | observing closely, using simple equipment  using their observations and ideas to suggest answers to questions |  |
| **Vocabulary** | Compare, describe, similar, different, Notice patterns, compare, measure, record, predict, gather, centimetre, millimetre, Ears, senses, hearing, spotting patterns, Fruit/vegetables, bread/rice/potatoes/pasta, milk/dairy/food high in fat/sugar, meat/fish/egg/beans,  Rain, snow, storm, thunder, lightning, cloudy, clothing, warm, cold, forecast, Rain, snow, storm, thunder, lightning, warm, cold, forecast, summer, autumn, winter, spring, seasons, Day, night, shadow length, change, light, dark, Weather, rainfall, precipitation, data, Weather, rainfall, precipitation, data, wind, direction, gauge, patterns | Rough/smooth, flat/bumpy, sharp/blunt, wood, metal, plastic, glass, rock, materials, properties, Rough/smooth, flat/bumpy, sharp/blunt, wood, metal, plastic, glass, rock, materials, properties, Magnetic, non-magnetic, metal, materials, properties, Rough/smooth, flat/bumpy, sharp/blunt useful, materials, properties,  Plant, leaf, grow, weed, change, living, water, healthy, similar to, different from,  Plant, leaf, grow, weed, change, living, water, healthy, similar to, different from, potato, chitting, Plant, leaf, root, grow, weed, change, living, water, healthy, different, seeds, garden centre, Warmth, light, water, dry, wet, moist, growth, germination, Seed, seed coat, bean, water, warmth, nutrients, leaves, stem, roots, | Birds, fish, reptiles, mammals, invertebrates, group, classify, carnivores, herbivores, omnivores, Birds, fish, reptiles, mammals, invertebrates, group, classify, habitats, offspring, babies, adults,  Food chain, predator, habitats, dependence,dead, alive, savannah, rainforest, tundra, micro-habitat, features, ocean, water, micro-habitat, features, |
| Quick quiz/assessment task | Report like David Attenborough and inform the nation of all things animal!  Become a meteorologist and read the weather and explain the seasons. | investigate and inform the local builder of appropriate materials for the new build estate near school, create a presentation/leaflet to inform them.  Information leaflet on a variety of seeds and bulbs.  Create sandwiches from grown cress. | Create a safari information tour and take people on a trip.  Create habitats and explain foods chain and survival of your animal. |