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| **Science: Key Stage 1- Year 1** |
| **Learning Challenges** |
| **What is happening in the school canteen?** | **Why are humans not like tigers?** | **Why is it not hot at Christmas?**  |
| **National Curriculum content** |
| Biology- Animals including humans  | Biology- Animals including humans  | Physics – seasons  |
| *Identify, name, draw and label the basic parts of the human body and say which part is associated with each sense.*  | *Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals* *Identify and name a variety of common animals that are carnivores, herbivores and omnivores**Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals* *Including pets)* | *Observe the changes across the four seasons**Observe and describe weather associated with the seasons and how day length varies* |
| **Key Knowledge** |
| * Name the parts of the human body
* Name the senses
* Know which part of the body is associated with each sense
 | * Know how to classify a range of animals by amphibian, reptile, mammal, fish and birds
* Know and classify animals by what they eat (carnivore, herbivore and omnivore)
 | * Name the seasons
* Know about the type of weather in each season
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| **Learning Challenges** |
| **What does Beegu think about life on Earth?** | **Which plants would you find in Boarshaw Clough?** | **Which scientists changed the world?** |
| **National Curriculum content** |
| Chemistry- Everyday materials  | Biology- Plants  | Scientist and Inventors  |
| *Distinguish between and object and the material from which it is made**Identify and name a variety of everyday materials, including, glass, metal, wood, plastic, rock**Describe the simple physical properties of a variety of everyday materials**Compare and group together a variety of everyday materials on the basis of their simple physical properties* | *Identify and name a variety of common and wild plants, including deciduous and evergreen trees**Identify and describe the basic structure of a variety of common flowering plants, including trees.* |  |
| **Key Knowledge** |
| * Know the names of the material an object is made from
* Know about the properties of materials
 | * Know and name a variety of common wild and garden plants
* Know and name the petal, stem, leaves and root of a plant
* Know and name the roots, trunk, branches and leaves of a tree
 | * Know what an inventor is.
* Name the famous inventor Alexander Graham Bell and say what he invented.
* Name the scientists Kwolek, Nightingale and Newton and recognise why they are famous.
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