



Knowledge and Skills Mind Map (Science)

Year 1 Autumn Term

Knowledge - 

Skill - 



1. October (weather dependent) Can I observe and describe weather associated with the seasons in the context of Autumn?

- **Prior Learning:** N/A
- **Vocab:** weather, seasons, Autumn, temperature,
- Know that we will look at each season (at the time it occurs) during Year 1.
- Know when each of the four seasons occur
- Know the features of Autumn (e.g. temperature/weather) and the changes that occur (e.g. leaves/shorter daylight/colder/)
- **Observations and ideas to suggest answers to questions**

6. Can I describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)?

- **Prior Learning:** named animals (carnivore, herbivore, omnivore)
- **Vocab:** describe, compare,
- To know the structure of a variety of common animals (e.g. **dog:** head, ears, eyes, nose, mouth, legs, tail, paws, fur, back; **fish:** head, trunk, tail, fins, gills, scales)
- Know that compare means similarities and differences
- **Observing closely, using simple equipment**

2. Can I draw the human body and label the different parts?

- **Prior Learning:** N/A
- **Vocab:** human body, bones, organs, brain,
- Know facts about human body:
 - We have about 206 bones
 - We have organs that do special jobs (e.g. lungs = breathe)
 - Our heart is always working—it pumps blood around our body
 - Our brain helps us learn, remember, move and feel happy/sad
 - We have muscles to help us move
- Know the basic parts of the human body:
 - Head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth
- **Identifying and Classifying**

• Animals, including humans
• Seasonal Changes: Autumn

5. Can I name a variety of common animals that are carnivores, herbivores and omnivores?

- **Prior Learning:** named a variety of common animals (fish, amphibians, fish, reptiles, birds, mammals)
- **Vocab:** carnivore, herbivore, omnivore
- Know that a carnivore is an animal that mainly eats meat
- Know that a herbivore is an animal that only eats plants
- Know that an omnivore is an animal that eats plants and meat
- **Identifying and classifying (name animals based on diet)**

3. Can I ask questions to find out about my body's senses?

- **Prior Learning:** drew the human body and labelled different parts
- **Vocab:** human body, senses, scientific question
- Know that humans have five senses: sight, hearing, smell, taste, and touch.
- Know which body parts are linked to each sense (eyes, ears, nose, tongue, skin). Know that our senses help us learn about the world around us.
- Know that, as scientists, we can ask scientific questions to help us understand our senses:
 - What can I see in the classroom?
 - What sounds can I hear at lunchtime?
 - What smells do I notice?
 - What food is sweet or salty?
 - How does an object in the classroom feel? Is it soft or hard?
- **Asking simple questions (e.g. Which part of the body do we use for sight/touch/smell) and recognising that they can be answered in different ways**

4. Can I name and classify a variety of common animals? (fish, amphibians, reptiles, birds and mammals)

- **Prior Learning:** asked questions about body's senses
- **Vocab:** animals, classifying,
- Know that grouping animals is called classifying
- Know that we can group some animals into fish, amphibians, reptiles, birds and mammals
 - Know that fish live in water, have fins, and breathe using gills.
 - Know that amphibians can live on land and in water and often start life in water.
 - Know that reptiles have dry, scaly skin and usually lay eggs on land.
 - Know that birds have feathers, beaks, and wings, and most lay eggs.
 - Know that mammals have hair or fur and feed their babies milk.
- **Identifying and classifying**