

# TMS Science Launchpad - Year 2023/2024

## Year 1 - Biology : Animals, including humans

### Substantive knowledge:

#### Parts of human body:

eyes, ears, nose, foot, thumb, toes,  
teeth, elbow, hand, fingers, shoulder,  
mouth, tongue, neck, head



**Fish:** cod, tuna, goldfish

**Mammals:** humans, dolphins, dogs, hamsters,

**Reptiles:** snakes, lizard, gecko,

**Amphibians:** frogs, toads, slowworms

**Birds:** blackbird, sparrow, vulture

**Insects:** spider, worm, moth



**Senses** - we have them to survive -  
and then respond

**eyes :** sight

**ears:** hearing

**tongue :** taste

**skin :** touch

**nose:** smell



#### Animals need food to:

- survive
- grow
- repair their bodies
- be active
- stay healthy.



**Carnivores** (meat eating) : cats, polar bears, sharks

**Herbivores** (plant eating) : horses, elephants, giraffes

**Omnivores** (eats both plants and animals): humans, foxes, dogs



#### Vocabulary:

amphibians, birds, fish, mammals, reptiles, carnivores, herbivore, omnivore, sight, hearing, touch, taste, smell, head, neck, ear, mouth, tongue, shoulder, hand, fingers, leg, foot, thumb, eye, nose, knee, toes, teeth, elbow, body, tail, wing, fin, scales, feathers, fur, beak, hooves, paws

### Disciplinary knowledge

Identify and  
classify



Observation over  
time



Pattern seeking



Comparative tests



Identify and  
classify



Identify and  
classify



What are the names  
for all the parts of  
our bodies?  
(to observe closely)

How does the  
length of my \_\_\_\_  
(body part) change  
over the year?  
(take  
measurements)

Do you get better at  
smelling as you get  
older?  
(interpret results)

Is our sense of smell  
better when we  
can't see?  
(blind fold and no  
blind fold)  
(gather and record  
results)

Can you identify  
parts of the body  
for different  
animals?  
(to ask scientific  
questions)

How can we  
organise all the zoo  
animals? (e.g.  
omnivores/  
carnivores/  
herbivores)  
(to observe closely)

Research



Do all animals have the same senses as humans?