

# TMS Science Launchpad - Year 2023/2024

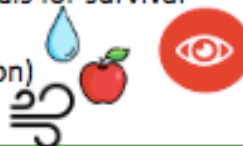
## Year 2 - Biology : Animals, including humans

THREE  
MILE  
STONE  
Primary School

### Substantive knowledge:

#### Basic needs of animals for survival

- water
- food (nutrition)
- air



#### Importance for humans of

- exercise
- diet
- hygiene



#### Life cycle for animals

Baby, toddler, child, teenager, adult

Once they are adults, they do not get bigger

Animals reproduce (have babies - offspring)

Animals will die at some point in their life



Animals move in order to survive

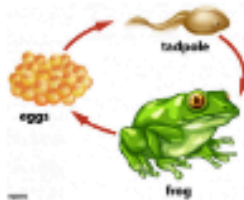
Animals move by the muscles and bones working together



Exercise keeps animal's bodies in good condition and increases survival chance



#### Life cycle



egg, chick, chicken  
egg, caterpillar, pupa, butterfly  
spawn, tadpole, frog  
lamb, sheep.



#### Vocabulary:

offspring, grow, adults, nutrition, reproduce, survival, water, food, air, exercise, hygiene, heartbeat, breathing, germs, disease, food types (examples – meat, fish, vegetables, bread, rice, pasta), egg-chick-chicken, egg-caterpillar-pupa-butterfly, spawn-tadpole-frog, lamb-sheep, baby-toddler-child-teenager-adult, metamorphosis amphibian, reptile, fish

### Disciplinary knowledge

Observation over time



Comparative tests



Pattern seeking



Identify and classify



Identify and classify



Identify and classify



How much food and drink do I have over a week?  
(gather and record results)

Do bananas make us run faster?  
(interpret results)

Which age group of children wash their hands the most in a day?  
(interpret results)

Which offspring belongs to which animal?  
(observe closely)

How does a tadpole change over time?  
(observe closely)

Do amphibians have more in common with reptiles or fish?  
(ask scientific questions)

Research



What food do you need in a healthy diet and why?

What do you need to do to look after a pet dog/cat/lizard and keep it healthy?

Why do different types of vitamins keep us healthy and which foods can we find them in?