

## Perton Primary Academy Knowledge Organiser

Science Topic: Human Survival

Year Group: 2

**Overview:** This topic teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how human offspring grow and change over time into adulthood.

**Opportunities to develop working scientifically:**

- Asking simple questions and recognising that they can be answered in different ways (Why should we use soap?)
- Observing closely, using simple equipment (Exploring healthy eating and nutrition, Exercise challenges)
- Performing simple tests (Exercise challenges)
- Identifying and classifying (Mammals)
- Using their observations and ideas to suggest answers to questions (Exercise challenges)
- Gathering and recording data to help in answering questions. (Block Graphs, Stages of life)

**Key vocabulary:**

- survival
- water
- air
- food
- reproduce
- adult
- baby
- offspring
- life cycle
- protection
- exercise
- hygiene
- balanced diet
- pulse
- heartbeat

**Prior Learning:**

EYFS - UTW, PD

Animal Safari - What animals need in order to survive.

Grouping animals.

Year 1 - Human Senses

**Future Learning:**

Year 3 - Animal Nutrition

Balanced diet, food groups and what each do for the human body.

Omnivores, carnivores and herbivores. Bones and muscles.

Identifying the 5 senses,  
labelling parts of the human  
body,

### Animal Parts

Six animals groups; birds,  
amphibians, mammals, reptiles,  
mammals and invertebrates.

Human and animal body parts.

Herbivores, carnivores and  
omnivores

### Year 4 - Food and the digestive system

Revisit omnivores, carnivores and  
herbivores. Ecosystems, food  
chains and food webs. Digestive  
system for humans and the use of  
each.

### Key knowledge:

#### Life cycle of a human

-Notice that animals, including humans, have offspring which grow into adults

#### Basic needs of humans

-Find out about and describe the basic needs of animals, including humans, for survival (water, food and air)

#### Benefits of exercise and nutrition

-Describe the importance for humans of exercise,

-Eating the right amounts of different types of food, and hygiene.

### Memorable Learning Experiences:

Exercise Challenge - Complete a fitness programme everyday for 10 days - Observe improvements and discuss the benefits to health and fitness - How would this continue to improve? What would the benefits be?

#### Why should we use soap? -

Washing hands with a variety of different substances - Do your

### Assessment Questions:

What do humans need in order to survive? (Name 3)

Describe the life cycle of a human.

Why is it important for humans to have a balanced diet?

Name 3 food groups.

Why should you clean your hands with soap?

Why is exercise important? (Name 2 benefits)

hands feel clean? Why? Make observations.

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