

Science Knowledge Organiser

Animals including Humans – Year 3

Sticky Learning

What you may already know...

- Know the basic stages in a life cycle for animals, (including humans)
- Know why exercise, a balanced diet and good hygiene are important for humans

What you are going to know by the end of this learning...

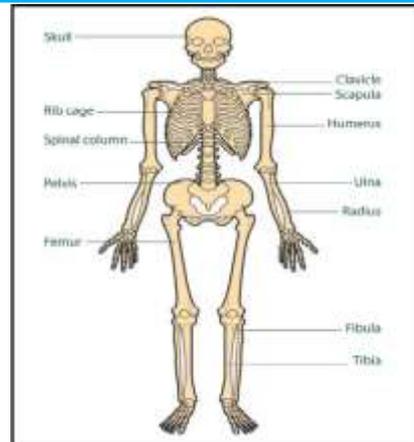
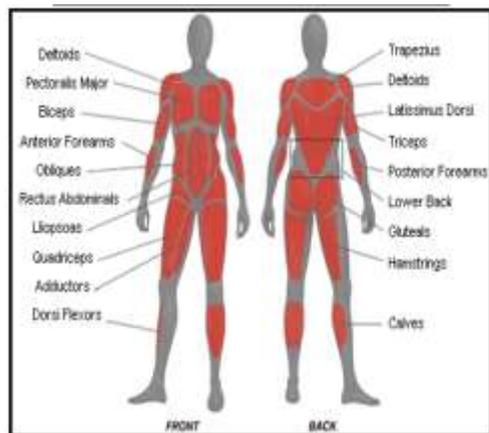
- Know about the importance of a nutritious, balanced diet
- Know how nutrients, water and oxygen are transported within animals and humans
- Know about the skeletal and muscular system of a human

Tissue	Tissue is part of the body of that is made of similar cells
Contract	When a muscle becomes smaller, shorter and tighter

Skeletons and Muscles	
What is a skeleton?	• A skeleton is a structure of bones that supports the body of a person or animal
12 common parts of the skeleton we should know	• Skull, clavicle, scapula, rib cage, humerus, spinal column, pelvis, ulna, radius, femur, fibula and tibia [See diagram]
What is a muscle?	• A soft tissue in the body that contracts and relaxes to cause movement of the skeleton
19 common muscles we should know	Front: Deltoids, pectoralis major, biceps, anterior forearms, obliques, rectus abdominals, iliopectas, quadriceps, adductors and dorsi flexors
	Back: Trapezius, deltoids, latissimus dorsi, triceps, posterior forearms, lower back, gluteals, hamstrings and calves



Nutrition	
Things animals need to survive	Water Food Air Shelter
Things humans need to survive	Water Food Air Shelter
Things humans need to be healthy	<ul style="list-style-type: none"> • To have a balanced diet of the right amount of different types of food and drink • To exercise regularly • To be hygienic
What is Nutrition?	Nutrition means animals getting the food they need to grow and be healthy
Can we make our own food?	No. <ul style="list-style-type: none"> • Humans and animals can't make their own food • They get food by either growing it, hunting it or gathering it
What is meant by growing food?	• Humans can grow their own food by planting seeds that they later harvest
What is meant by hunting food?	• Humans can hunt other animals to eat
What is meant by gathering food?	• Humans can find foods grown in the wild to eat



Key Vocabulary	
vertebrate	animals with backbones
invertebrate	animals without backbones
muscles	soft tissues in the body that contract and relax to cause movement
tendons	cords that join muscles to bones
joints	areas where two or more bones are fitted together

A balanced diet...

