

West Leigh Junior School—Knowledge Organiser



Science Focus:

Classification (Living Things and their Habitats)

Year 6

Spring Term 1

Classification

The Five Kingdoms

The first division of living things in the classification system is to put them into one of five kingdoms.

- animals (all multicellular animals)
- plants (all green plants)
- fungi (moulds, mushrooms, yeast)
- protists (Amoeba, Chlorella and Plasmodium)
- prokaryotes (bacteria, blue-green algae)

Living things can then be ranked according to:

Panthera leo (lion)Panthera tigris (tiger)

Phyla	Phyla follow kingdoms and have many different organisms. The animal kingdom includes the three examples below:
	• chordata, which have backbones
	arthropod, which have jointed legs and an exoskeleton
	annelids, which are segmented worms
Class	Class is an additional sub-division, which, for example, results in the chordata phylum being divided into:
	• mammals
	• birds
	• amphibians
	• fish
	• reptiles
Order	Order follows class and, as an example, mammals can be further sub-divided into a variety of different groups such as:
	• carnivores
	• primates
Family	Orders are broken down into families. Here are a few examples of families that carnivores can be divided into:
	• canidae – dogs
	• felidae – cats
Genus	Genus follows on from family. The felidae family can be sub-divided into four genus examples:
	• acinonyx – cheetah
	• panthera – lion and tiger
	• neofelis – clouded leopard
	• felis – domestic cats
Species	Species is the final classification stage, and the genus panthera can be divided into:

Famous Scientist

Edward Jenner (1749-1823)



Edward Jenner was responsible for discovering the world's first-ever vaccine and his work saved so many lives – in fact Jenner's work is said to have saved more lives than the work of any other human! He was born in 1749 in Gloucestershire, where he trained as a doctor and became famous for his discovery of the smallpox vaccine. His discovery was a huge medical breakthrough; in 1980, the World Health Organisation declared the dangerous disease smallpox an eliminated disease.

Key Vocabulary			
Spelling	Definition		
classification	Grouping something using its features.		
distinguish	Recognise a difference.		
invertebrate	Animals with no backbone.		
microorganism	A microscopic organism.		
organism	An individual animal, plant, or single-celled life form.		
taxonomy	The part of science focused on classification.		
vertebrate	Animals with a backbone.		

Key Features of Microorganisms

- Include algae, fungi, protozoa, bacteria and viruses
- Smallest organisms on Earth
- They perform photosynthesis, break down waste and infect other organisms

