

Create - The Environment Science and Art focus

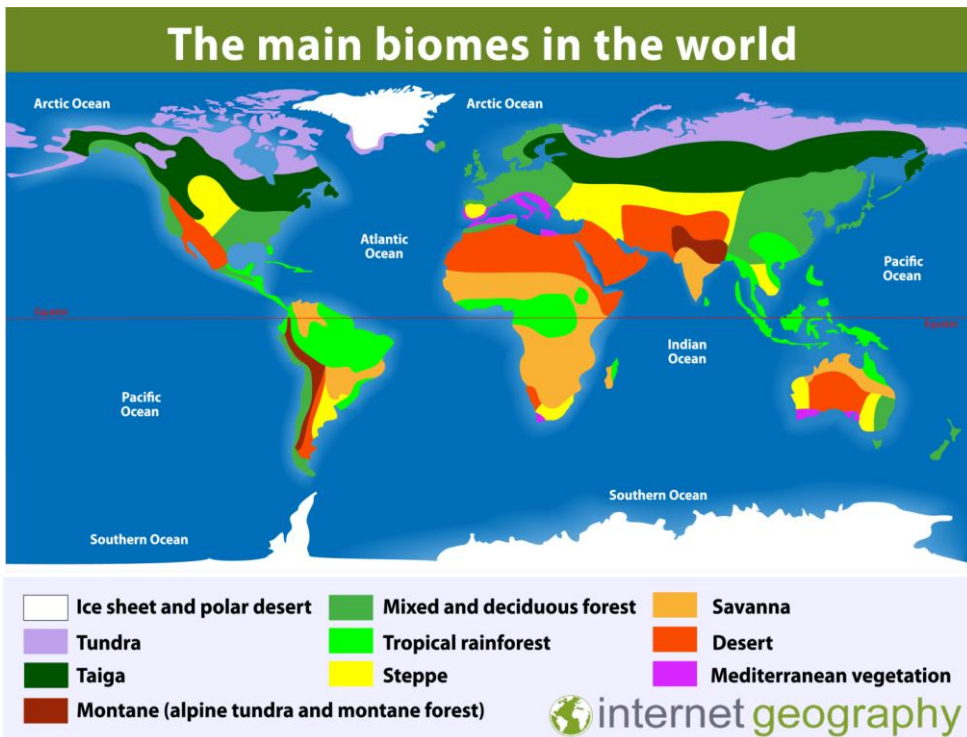
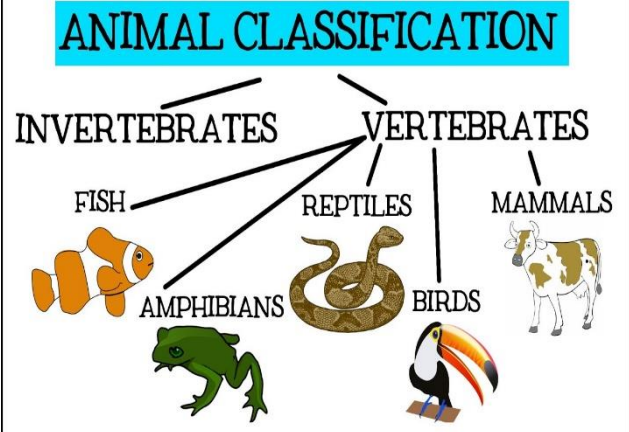
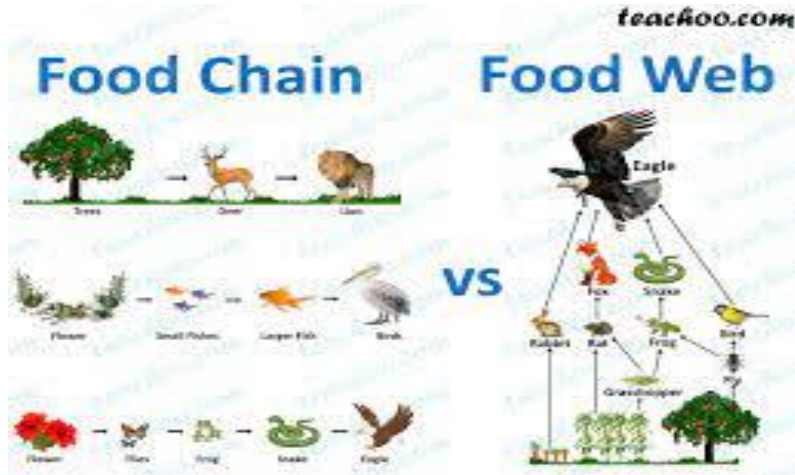
Children's Knowledge Organiser – Questions and answers

What is an ecosystem ?	A group of plants and animals and their habitat. (They all relate to each other)
What is a biome ?	A biome is a large area with similar animals, plants, climate and landscape (like a very large ecosystem)
Name 5 different biomes	There are many biomes – here are the main ones: Desert Aquatic (water) - salt water and fresh water Savannah (grasslands) Forest – rain forest and temperate forest Tundra
Rikki-Tikki Tavi and the story of Mowgli come from The Jungle Book by Rudyard Kipling . In which country are these stories set?	The stories are all set in India and feature animals found in the Indian jungle.
We inherit different characteristics from both our parents. This is called inheritance and explains why we may look like one or both of our parents, How do we inherit different characteristics.	We inherit this information through genes . Our genes are unique to us and give us our hair colour, eye colour and other features. They contain something called DNA. We inherit half our genes from our mum and half from our dad.
Who first put this theory forward? The 'Theory of Evolution' explains how a species develops as the best adapted animals survive and breed and less well adapted die out. This is called, The survival of the Fittest. Who first put forward this theory?	Charles Darwin
Animals can be divided into vertebrates (animals with a backbone) and invertebrates (those without) What are the main vertebrate animal groups?	Vertebrates can then be divided into these 5 main animal groups: mammals, fish, birds, reptiles, and amphibians. Invertebrates can also be split into groups – insects and arachnids are probably the best well known.
What describes the feeding relationships in an ecosystem?	A food chain Or A food web
Give 3 ways in which a plant disperses its seeds.	Plants use the following to disperse (spread) their seeds: Animals – they eat them and then the seed passes out in their faeces Animals – the seed sticks to the fur of an animal and is transported somewhere else. The wind – sycamore seeds are a good example. Water – coconuts float away from the parent tree in water. Explosion – some seeds fire their seeds like a gun.

The coastline of Southern England (Dorset) and the Isle of Wight is known as the Jurassic Coast because of the high number of fossils found there.

Can you explain why this might be?

Scientists think that the Isle of Wight was once joined to the mainland coast. This meant that The Solent was a large lagoon. The bodies of prehistoric animals and plants became trapped here.



Seed dispersal

Seeds can be dispersed in various ways.

- Expulsion:**
 - Some seeds ripen in a way that causes the seeds to be ejected.
 - Example: Squirting cucumber.
 - Example: Spiky seed pod (like a pea).
 - Example: Spiky seed pod (like a poppy).
- Animals:**
 - Animals, especially birds, eat the fruit and leave the seeds.
 - Example: Squirting cucumber.
 - Example: Apple.
 - Example: Seed pod.
- Wind:**
 - Some seeds have "wings" that help them float on the wind for some distance.
 - Example: Dandelion.
 - Example: Poppy.
- Water:**
 - The fruit of the water hyacinth floats on the water until it reaches some mud to which it will grow.
 - Example: Coconut.