

# Eagle Owls

# Evolution and Inheritance - Knowledge Organiser

## Key Vocabulary

**Adaptation:** The process which allows animals & plants to live and survive in an environment (see example of a polar bears adaptations below).

**Environment:** Everything living and non-living in the world we live in.

**Evolution:** The way that living things change over time.

**Fossils:** A fossil is the preserved remains or traces of a dead animal or plant.

**Offspring:** When living things reproduce, their young can be called offspring. These will be the same species but will vary and not be identical to their parents.

**Palaeontologist:** These are the scientists who study fossils.

**Species:** Groups of plants and animals that are very similar to each other and can produce offspring.

## Important Scientists:

**Mary Anning:** a palaeontologist who collected and studied many fossils from England.

**Charles Darwin** and **Alfred Wallace:** were the scientists responsible for the theory of evolution.

## Unlock more knowledge by reading and / or visiting:

**Class books:** The Story Of Life, When the Whales Walked & Charles Darwin and the Beagle Adventure.

**Website:** <https://www.bbc.co.uk/bitesize/topics/zvhvvcw>  
<https://www.dkfindout.com> and search for evolution.

## Evolution of the whale:

This diagram shows how animals have changed (adapted) over time, gradually forming a new species. We know about these changes from fossils. In this case, the furry, four legged mammal has evolved over a very long time into the whale.

This is how all plants and animals have evolved in



## Key Scientific Vocabulary:

Observe, identify, classify, group, compare, contrast, research, labelled, conclusion, interpret.

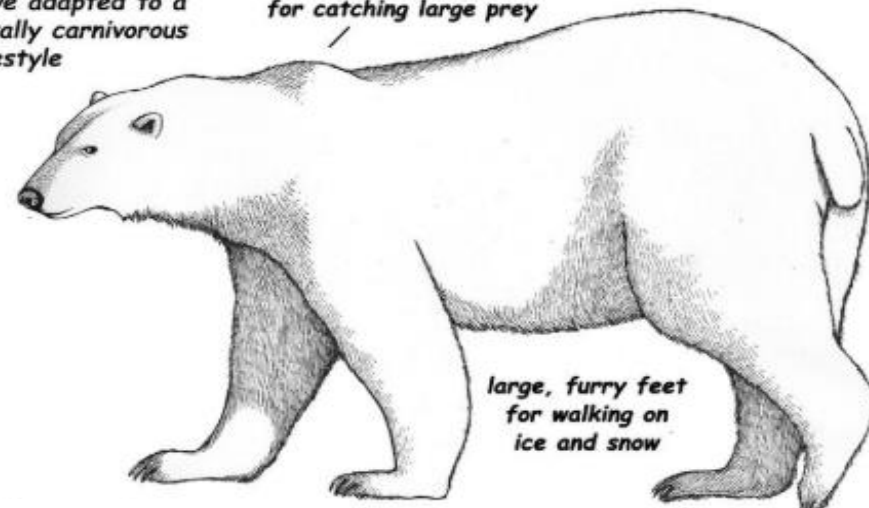
## Example of an animal's adaptations to its environment.

### Polar Bear Adaptations

most bears eat some plant matter, but where polar bears live, they have adapted to a totally carnivorous lifestyle

muscle hump over shoulders for catching large prey

white fur helps them hide in plain sight



large, furry feet for walking on ice and snow

