

Carr Head Primary School - Knowledge Organiser

Science

Evolution & Inheritance

Year 6

Summer 2

Key Knowledge

Fossils

The preserved remains, impression, or trace of any once-living thing from a past geological age. Examples include bones, shells, exoskeletons, stone imprints of animals or microbes, objects preserved in

Fossilization

The process by which a plant or animal becomes a fossil. Only a small fraction of the plants and animals from the past 600

Inheritance

When living organisms reproduce, they

Offspring

Young born of living organisms, produced

Adaptation (cold)

Polar bear adaptations: white appearance (camouflage from prey on the snow and ice), thick layers of fat/ fur (for insulation against the cold), a small surface area to volume ratio (to minimize heat loss) and a greasy coat that sheds water after swim-

Adaptation (heat)

Camel adaptations: wide feet for walking in sand, long eyelashes/ thin nostrils that can close to protect them from blowing sand and ability to survive a long time

Alfred Russel Wallace

Alfred Russel Wallace was a famous Welsh naturalist and explorer. He is well-known for cataloging different species in Asia and South America. This helped him propose the idea of 'natural selection'. His work greatly influenced the work of Charles

Charles Darwin

Charles Darwin was an English naturalist famous for his work on the theory of evolution. His book 'On the Origin of Species (1859)' did two things. First, it provided a great deal of evidence that evolution had taken place. Second, it proposed a theory to explain how evolution works. That theory

Mary Anning

Mary Anning was an English paleontologist. She became known around the World for important finds she made in the cliffs along the English Channel at Lyme Regis in the county of Dorset in Southwest England.

Key Vocabulary

Paleontology

A scientist who studies the fossilized

Remains

Remnants of an organism.

Breed

A specific group of animals having homogeneous appearance, behav-

Genes

Genes carry information that determines your traits; features or characteristics that are passed on to you — or inherited — from your parents.

Environment

Surroundings/ conditions in which a person, animal, or plant lives or oper-

Climate

Long-term average of weather, typically averaged over a period of 30

Naturalist

A type of biologist who studies the impacts of living species on each other and the environments in which they live.

Natural selection

Process by which a species changes over time in response to changes in the environment, or competition between organisms, in order for the

Paleontologist

A scientist who studies the fossilized



Charles
Darwin

Mary
Anning

Alfred Russel
Wallace

Know how to...

Working Scientifically

Observing & raising questions about animals and how they are adapted to the environment.

Comparing how some living things are adapted to survive in extreme conditions.

Analysing the advantages/ disadvantages of specific adaptations..

Reporting and presenting findings from enquiries in oral and written forms such as displays and other presentations .