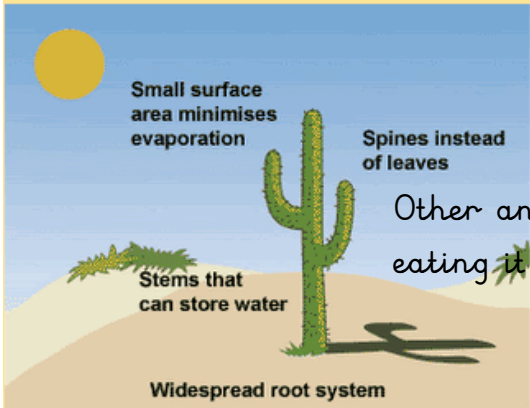


Biology – Evolution and Inheritance

Subject Specific Vocabulary		Associated Diagram	Sticky Knowledge
Fossil	the preserved remains or traces of a dead organism.	Label the plant with its characteristics which make it able to live in the desert. Explain why each characteristic is important. 	Briefly explain Charles Darwin's theory of evolution.
Evolution	the process by which living things can gradually change over time.		Over time, the characteristics that help survival become more common and a species gradually changes. Given enough time, these small changes can add up to the extent that a new species altogether can evolve.
Inheritance	passing on characteristics to next generations		How do we know information about people in the past? Explain how these are formed.
Genes	a unit of heredity which is transferred from a parent to offspring		Fossils- After an animal dies, the soft parts of its body decompose leaving the hard parts, like the skeleton, behind. This becomes buried by small particles of rock called sediment. As more layers of sediment build up on top, the sediment around the skeleton begins to compact and turn to rock. The bones then start to be dissolved by water seeping through the rock. Minerals in the water replace the bone, leaving a rock replica of the original bone called a fossil.
Adaption	the process of making something suitable for conditions		Give 5 examples of characteristics we may inherit from parents. Hair / eye colour, nose shape, ear shapes, blood type, ability to roll tongue, dimples, height
Generation	all of the people born and living at about the same time		Choose an animal and explain how it's adapted to its environment. Giraffe-long necks to reach high trees Arctic fox-thick fur to keep warm and pointy ears to hear prey Penguin-fat to keep warm Camel-big feet to walk on sand, long eyelashes and thin, slit nostrils that they can close to protect them from blowing sand, fat in humps to keep up energy during long treks
		Explain how adaptations result in evolution. Small changes (adaptations) happen and over time this causes evolution which is where the full changes can be noticed.	