


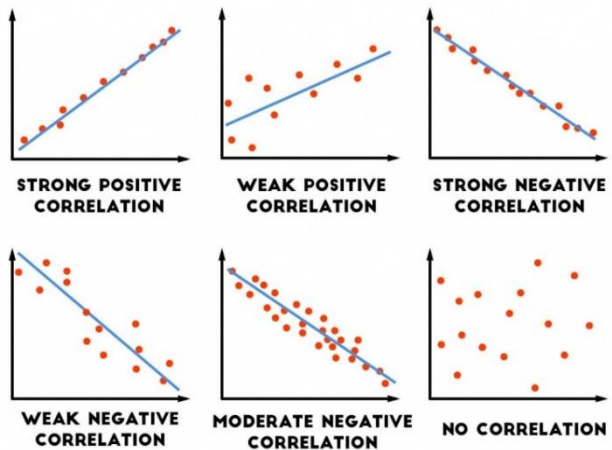


Y7 - Ecology and Variation knowledge organiser

Physical environmental factors	The non-living conditions in the environment of an organism (e.g. temperature, light levels, moisture).	
Conditions in an environment	Caused by Physical environmental factors (e.g. temperature, light levels, moisture)	
Adapted	A living organism has features that make it well suited to where it lives	
Polar bears have white fur	Camouflaged so prey species cannot see the polar bear hunting them	
Conserving water	Organisms that live in hot, dry climates conserve water to survive	
Fish adaptations	Fish have many features that enable them to survive in water e.g gills – to extract oxygen from the water fins – for movement	
Seasonal changes	Changes in the physical environmental factors of an environment which happen during the course of the year. E.g it gets colder during the winter.	
Nocturnal	Animals that are active at night (e.g. owls)	
Behavioural adaptations	Some animals change their behaviour to improve their survival chances. Eg. Swallows are birds that migrate to warmer countries during the winter as there is more food there and Hedgehogs hibernate (go to sleep) during the winter.	
Thicker fur in winter	e.g. rabbits - This insulates them and keeps them warmer to increase their chances of survival.	

<p>Defence adaptations</p>	<p>Some animals that are preyed upon by predators have defensive adaptations. E.g hedgehogs have spines to stop predators eating them. Some animals taste poisonous to deter predators</p>	
<p>Competition in plants</p>	<p>Plants compete for light, water, space</p>	
<p>Variation</p>	<p>Differences between living things</p>	
<p>Correlation</p>	<div style="text-align: center;"> <p>CORRELATION</p> <p>(INDICATES THE RELATIONSHIP BETWEEN TWO SETS OF DATA)</p>  <p>relationship between two variables</p> </div>	
<p>Species</p>	<p>A group of organisms that can reproduce with each other to produce fertile offspring</p>	
<p>Inherited variation</p>	<p>Differences between individuals which have been passed on by parents through reproduction e.g. eye colour, blood group</p>	
<p>Environmental variation</p>	<p>Differences between organisms caused by environmental factors e.g. how free range chickens look different to caged chickens</p>	
<p>Environment</p>	<p>The conditions around an organism caused by physical environmental factors</p>	