## Year 7: ASK Yourself!

Subject: Science

Jnit 7.9: Variation for survival				
	Launching	Developing	Progressing	Mastering
Skills				
kills				
	I need to explain	I can partially	I can partially	I can expertly use
	whether characteristics	explain how variation helps a	explain how characteristics of	the ideas of variation to explain
	are inherited,	particular species	a species are	why one species
	environmental or	in a changing	adapted to	may adapt better
	both. I need to plot bar	environment. I can partially	particular environmental	than another to environmental
	charts or line	explain how a lack	conditions.	change.
	graphs to show	of biodiversity can	I can partially use	I can expertly
	discontinuous or continuous	affect an ecosystem.	evidence to explain why a species has	suggest an explanation, based
	variation data.	I can partially use	become extinct or	on data, for how a
		a diagram to show	adapted to	particular
		how genes are inherited.	changing conditions.	evolutionary
		innerriea.	conditions.	change occurred.
<b>K</b> nowledge				
	I need to know	I partially know	I confidently know	I understand that
	that there is	that variation	that inherited	chromosomes are
	variation between individuals of the	between individuals is	characteristics are the result of	long pieces of DNA which
	same species.	important for the	genetic	contain many
	Some variation is	survival of a	information, in the	genes. Gametes,
	inherited, some	species, helping it	form of sections of DNA called	carrying half the total number of
	is caused by the environment and	to avoid extinction in an always	genes, being	chromosomes of
	some is a	changing	transferred from	each parent,
	combination.	environment.	parents to	combine during
	I need to know that natural	I partially know that biodiversity is	offspring during reproduction.	fertilisation.
	selection is a	vital to maintaining		
	theory that	populations.		
	explains how species evolve and	Within a species variation helps		
	why extinction	against		
	occurs.	environment		
		changes, avoiding extinction.		