


Biology > Big idea BVE: Variation, adaptation and evolution > Topic BVE1: Variation

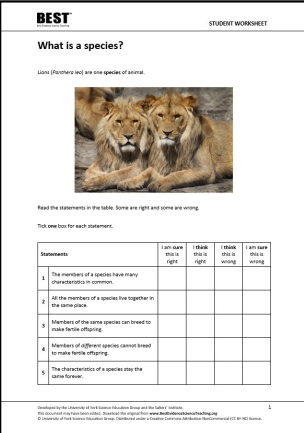
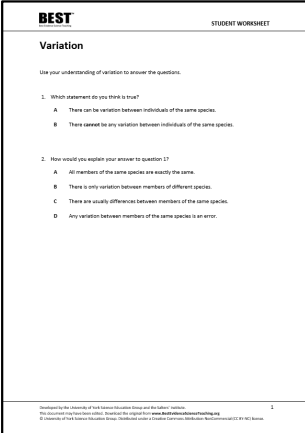
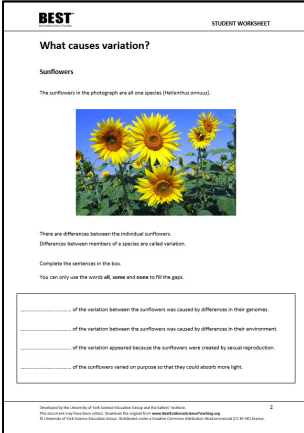

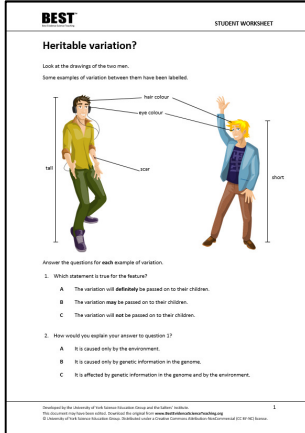
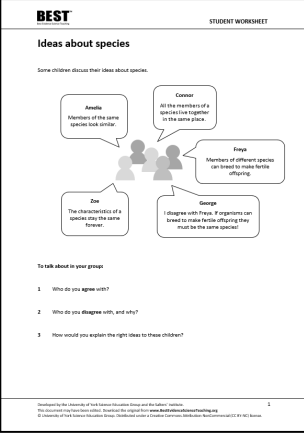
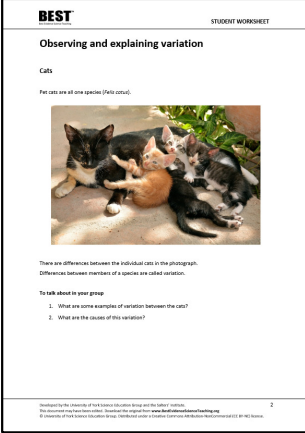
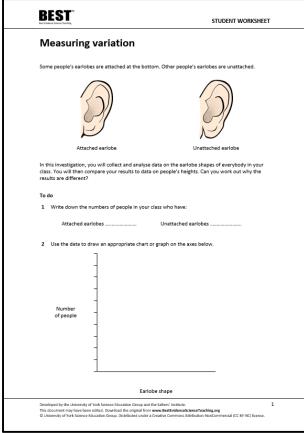
**Progression toolkit: Differences within species**

<b>Learning focus</b>	There is variation between individuals of the same species, caused by differences in the genomes, lifestyles and environments of the individuals.				
<b>As students' conceptual understanding progresses they can:</b>					
<b>Diagnostic questions</b>	Recognise what is meant by a 'species'.	Recognise that there are differences between individuals within a species, and this is called variation.	Identify sources of variation, including differences in the genomes, lifestyles and environments of individuals.	Distinguish between continuous and discontinuous variation.	Apply the idea that only genetic variation can be inherited.
<b>Response activities</b>	What is a species?	Variation	What causes variation?	Continuous and discontinuous variation	Heritable variation?
<b>Response activities</b>	Ideas about species	Observing and explaining variation		Measuring variation	

Key:

**P** Prior understanding from earlier stages of learning

**B** Bridge to later stages of learning

<h3 style="text-align: center;">What is a species?</h3>  <p style="text-align: center;"><b>Confidence grid</b></p>	<h3 style="text-align: center;">Variation</h3>  <p style="text-align: center;"><b>Two-tier multiple choice</b></p>	<h3 style="text-align: center;">What causes variation?</h3>  <p style="text-align: center;"><b>Focused cloze</b></p>	<h3 style="text-align: center;">Continuous and discontinuous variation</h3>  <p style="text-align: center;"><b>Focused cloze</b></p>	<h3 style="text-align: center;">Heritable variation?</h3>  <p style="text-align: center;"><b>Two-tier multiple choice</b></p>
<h3 style="text-align: center;">Ideas about species</h3>  <p style="text-align: center;"><b>Talking heads, discussion</b></p>	<h3 style="text-align: center;">Observing and explaining variation</h3>  <p style="text-align: center;"><b>Challenge to thinking, discussion</b></p>	<h3 style="text-align: center;">Measuring variation</h3>  <p style="text-align: center;"><b>Practical investigation, numeracy</b></p>		