

Biology > Big idea BOE: Organisms and their environments > Topic BOE2: Organisms in their environments

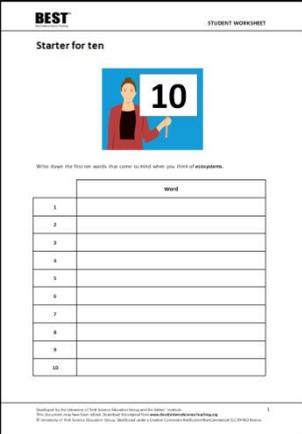
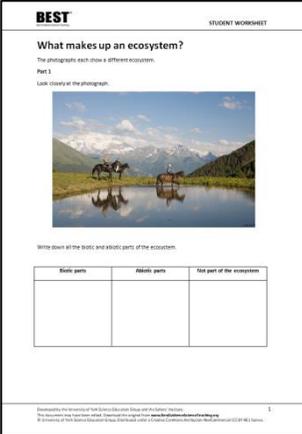
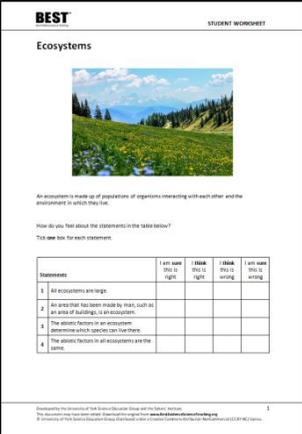
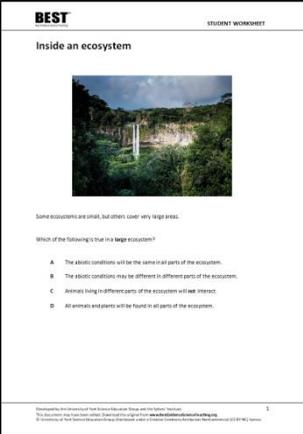
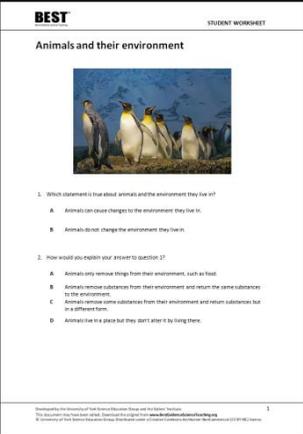
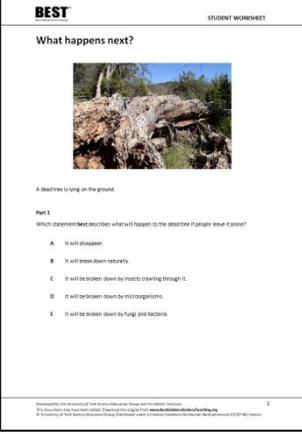
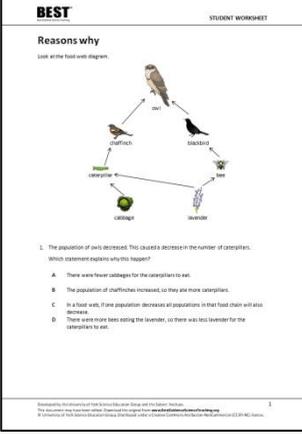
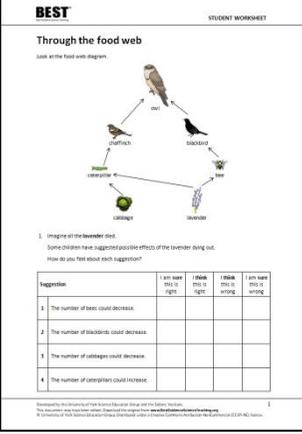
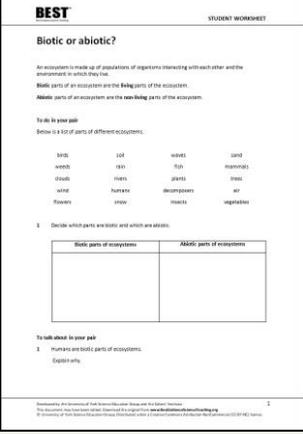
Progression toolkit: Ecosystem components and dynamics

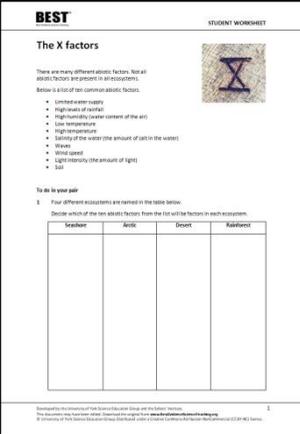
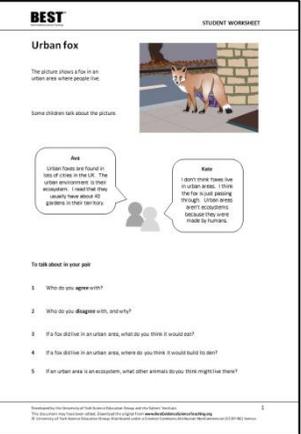
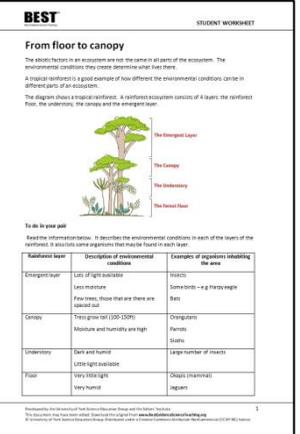
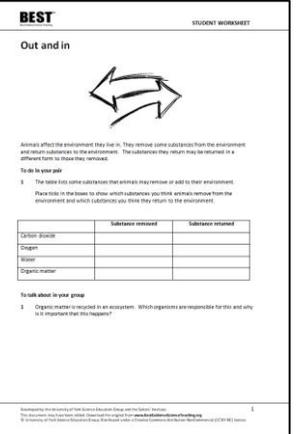
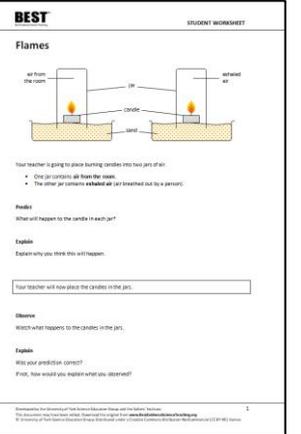
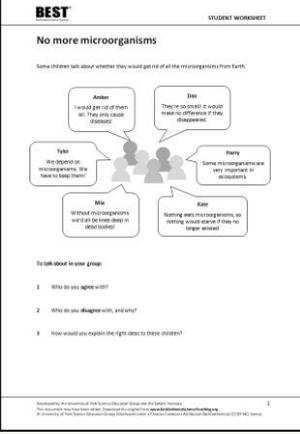
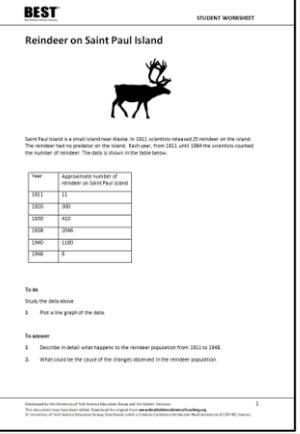
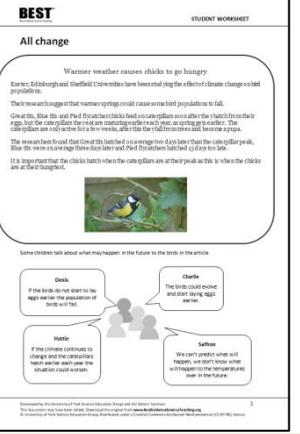
Learning focus	The environmental conditions in different ecosystems, and in different parts of an ecosystem, affect and are affected by the organisms that live there.				
As students' conceptual understanding progresses they can:					
Identify abiotic and biotic components of an ecosystem.	<p>Identify abiotic and biotic components of an ecosystem.</p> <p>P</p>	<p>Recognise that there are different environmental conditions in different ecosystems, and this affects what lives there.</p> <p>P</p>	<p>Recognise that there are different environmental conditions within ecosystems, and this affects what lives there.</p>	<p>Describe ways in which animals change the environment they live in.</p>	<p>Describe how changes in environmental conditions may lead to population change in ecosystems.</p> <p>B</p>
Diagnostic questions	<p>Starter for ten</p> <hr/> <p>What makes up an ecosystem?</p>	<p>Ecosystems</p>	<p>Inside an ecosystem</p>	<p>Animals and their environment</p> <hr/> <p>What happens next?</p>	<p>Reasons why</p> <hr/> <p>Through the food web</p>
Response activities	<p>Biotic or abiotic?</p>	<p>Where do you live?</p> <hr/> <p>The X factors</p> <hr/> <p>Urban fox</p>	<p>From floor to canopy</p>	<p>Out and in</p> <hr/> <p>Flames</p> <hr/> <p>No more microorganisms</p>	<p>The wolves of Yellowstone National Park</p> <hr/> <p>Reindeer of Saint Pauls Island</p> <hr/> <p>All change</p>

Key:

P Prior understanding from earlier stages of learning

B Bridge to later stages of learning

<h3>Starter for ten</h3>  <p>Word association</p>	<h3>What makes up an ecosystem?</h3>  <p>Classifying/sorting</p>	<h3>Ecosystems</h3>  <p>Confidence grid</p>	<h3>Inside an ecosystem</h3>  <p>Simple multiple choice</p>	<h3>Animals and their environment</h3>  <p>Two-tier multiple choice</p>
<h3>What happens next?</h3>  <p>Simple multiple choice</p>	<h3>Reasons why</h3>  <p>Simple multiple choice</p>	<h3>Through the food web</h3>  <p>Confidence grid</p>	<h3>Biotic or abiotic?</h3>  <p>Classifying/sorting, discussion</p>	<h3>Where do you live?</h3>  <p>Discussion, card sort</p>

<h3>The X factors</h3> 	<h3>Urban fox</h3> 	<h3>From floor to canopy</h3> 	<h3>Out and in</h3> 	<h3>Flames</h3> 
<p>Discussion</p>	<p>Discussion, talking heads</p>	<p>Discussion</p>	<p>Discussion</p>	<p>Practical PEOE</p>
<h3>No more microorganisms</h3> 	<h3>The wolves of Yellowstone National Park</h3> 	<h3>Reindeer of Saint Pauls Island</h3> 	<h3>All change</h3> 	
<p>Talking heads, discussion</p>	<p>Discussion</p>	<p>Application and practice</p>	<p>Discussion</p>	