

Biology > Big idea BCL: The cellular basis of life > Topic BCL2: From cells to organ systems

Key concept (age 11-14)

BCL2.2: Supplying cells – the human circulatory, digestive and gas exchange systems

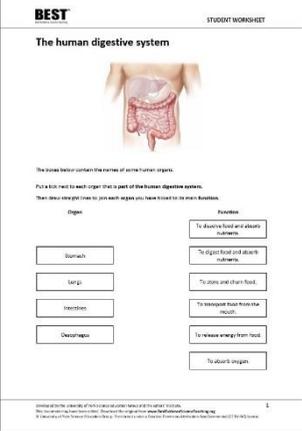
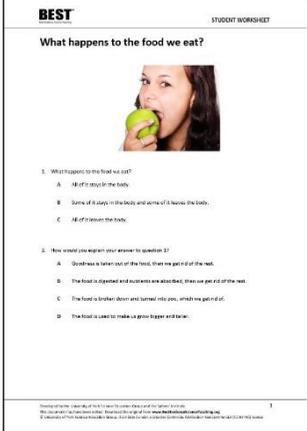
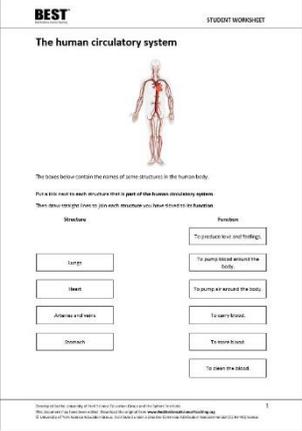
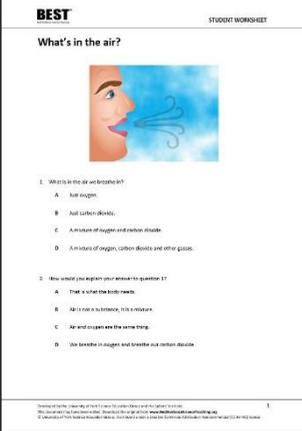
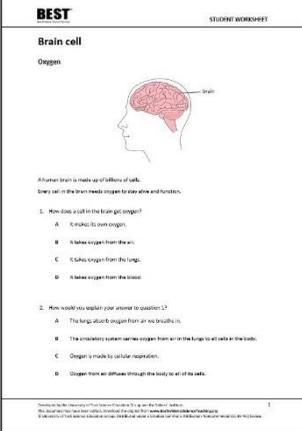
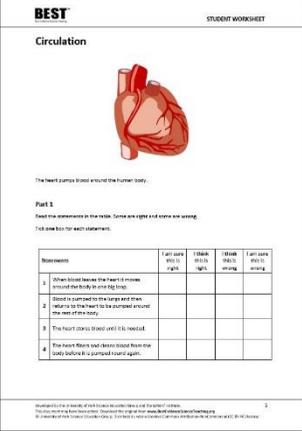
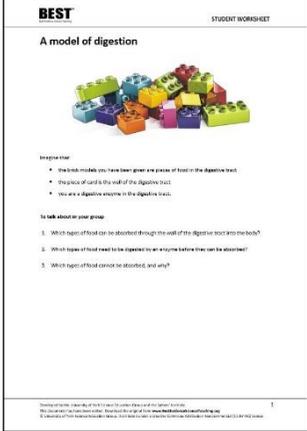
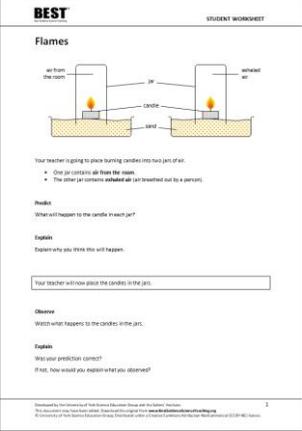
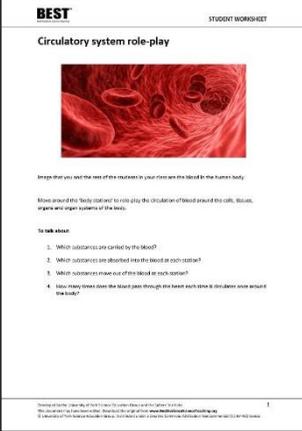
Progression toolkit: Supplying cells – the human circulatory, digestive and gas exchange systems

Learning focus	Human life depends upon the tissues and organs of the circulatory, digestive and gas exchange systems working together to support the life processes of the cells from which we are made.				
As students' conceptual understanding progresses they can:	CONCEPTUAL PROGRESSION				
	Describe simply the structures and functions of the human digestive system. P	Describe simply the structures and functions of the human circulatory system. P	Describe simply the structures and functions of the human gas exchange system.	Explain how the human circulatory, digestive and gas exchange systems work together to keep cells alive.	Explain how substances move into and out of the blood. B
Diagnostic questions	The human digestive system	The human circulatory system	The human gas exchange system	Brain cell	Oxygen
	What happens to the food we eat?	Arteries and veins	What's in the air?	Circulation	
Response activities	A model of digestion		Flames	Circulatory system role-play	

Key:

P Prior understanding from earlier stages of learning

B Bridge to later stages of learning

<p>The human digestive system</p>  <p>Linking ideas</p>	<p>What happens to the food we eat?</p>  <p>Two-tier multiple choice</p>	<p>The human circulatory system</p>  <p>Linking ideas</p>	<p>What's in the air?</p>  <p>Two-tier multiple choice</p>	<p>Brain cell</p>  <p>Two-tier multiple choice</p>
<p>Circulation</p>  <p>Confidence grid</p>	<p>A model of digestion</p>  <p>Modelling, discussion</p>	<p>Flames</p>  <p>Predict, explain, observe, explain (PEOE)</p>	<p>Circulatory system role-play</p>  <p>Role-play</p>	