

Definitions

Learning objectives

C

Success criteria

A

Tasks

A C

Subject



Year level/Stage 8

Lesson background

Learning objectives

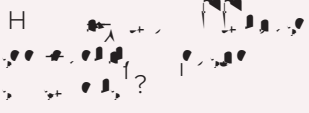
Success criteria

Misconceptions


Lesson stage	Instructional activities	Monitoring student learning
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Explicit teaching of new learning ('I do') – the process of diffusion

H



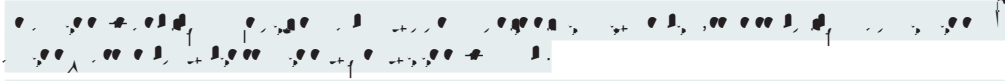


H




H



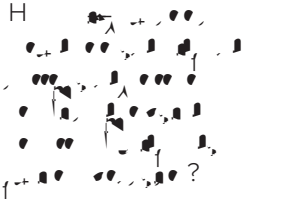
Whole class:



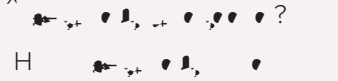


1. 
2. 
3. E 

H



H



Lesson stage	Instructional activities	Monitoring student learning
Guided practice ('We do') – analysing and labelling diagrams showing diffusion		
 <p>A</p>  <p>A</p>  <p>H</p>	<p>Whole class:</p> <ol style="list-style-type: none">  <p>1. M</p> <p>...?</p> <p>...?</p> <p>H ...?</p>  <p>2.</p> 	

Lesson stage	Instructional activities	

Lesson stage	Instructional activities	Monitoring student learning
Explicit teaching of new learning ('I do') – factors affecting diffusion		
	<p>Whole class:</p> <ol style="list-style-type: none"> 1. E 2. A 3. E 4. A 5. A <p>M</p>	

Lesson stage	Instructional activities	Monitoring student learning
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Guided practice ('We do') – factors affecting diffusion

	<p>Whole class:</p>	
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Independent practice ('You do')

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Lesson stage	Instructional activities	Monitoring student learning
Guided practice ('We do') – diffusion in the body		
	<p>Whole class:</p> <p>Explain that the body is made of cells. Cells need to get oxygen and nutrients from the blood. The blood carries these to the cells. The cells then use them for energy. The blood also carries away waste products from the cells. This is how the body stays healthy.</p> <p>Small groups:</p> <p>Discuss how the body gets oxygen and nutrients from the blood. How does the blood carry these to the cells? How does the blood carry away waste products from the cells?</p>	
Independent practice ('You do') – diffusion in the body		
	<p>Whole class:</p> <p>Ask students to draw a diagram of a cell. Label the cell membrane, cytoplasm, nucleus, and mitochondria. Explain that the cell membrane is the barrier between the cell and its environment. It allows oxygen and nutrients to enter the cell and waste products to leave the cell. The cytoplasm is the fluid inside the cell. The nucleus is the control center of the cell. The mitochondria are the powerhouses of the cell. They produce energy for the cell to use.</p> <p>Small groups:</p> <p>Discuss how the cell membrane allows oxygen and nutrients to enter the cell and waste products to leave the cell. How does the cytoplasm help the cell to function? How does the nucleus control the cell's activities? How do the mitochondria produce energy for the cell to use?</p> <p>Whole class:</p> <p>Explain that the cell membrane is the barrier between the cell and its environment. It allows oxygen and nutrients to enter the cell and waste products to leave the cell. The cytoplasm is the fluid inside the cell. The nucleus is the control center of the cell. The mitochondria are the powerhouses of the cell. They produce energy for the cell to use.</p>	

