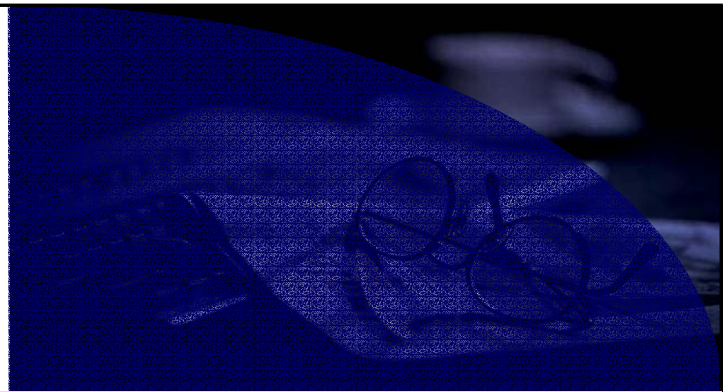


assessment for learning  
year 8...mark scheme



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## 8B Respiration...mark scheme

### Assessment for learning...year 8 (level 3-6)

#### Question 1:

- (a) (i) oxygen and carbon dioxide 1  
(ii) smaller surface area 1
- answers may be in either order  
both are required for the mark  
accept 'O<sub>2</sub> and CO<sub>2</sub>'  
accept 'nitrogen' instead of oxygen and carbon dioxide  
do **not** accept 'smaller'*
- (b) (i) nicotine 1  
(ii) tar 1  
(iii) carbon monoxide 1

**[5]**

#### Question 2:

- (a) (i) yellow 1  
(ii) respiration 1
- do **not** accept 'breathing'*
- (b) (i) purple 1  
(ii) photosynthesis 1

(c) photosynthesis and respiration were happening at the same time **or** rate 1  
*accept 'carbon dioxide was being used up and produced at the same rate' or 'snails produce carbon dioxide and waterweed uses it up'*

(d) yellow ✓ 1  
*if more than one box is ticked, award no mark*

**[6]**

**Question 3:**

(a) (i) 500 1  
(ii) more carbon dioxide 1  
more water vapour 1  
less oxygen 1  
*answer may be in any order*

(b) (i) trachea **or** wind pipe 1  
alveolus 1  
*accept 'aveoli' or 'air sac'*  
*answers must be in the correct order*

(ii) any **one** from 1  
• to support the trachea  
*accept 'to support it'*  
• to keep the trachea open  
• to prevent the trachea from collapsing  
*accept 'to strengthen the trachea' or 'to make it strong'*  
*do not accept 'to protect the windpipe'*

**[7]**

**Question 4:**

(a) (i) P 1  
(ii) S 1  
(b) (i) oxygen 1  
(ii) carbon dioxide 1

(c) so that oxygen **or** carbon dioxide **or** gases can pass through quickly **or** easily 1  
*do not accept 'so air can pass through easily'*  
*do not accept 'so that oxygen can pass through'*

*accept 'so they can expand easily'*

(d) any **one** from

1

- so that a lot of oxygen can be absorbed **or** taken in

*accept 'so that enough oxygen **or** carbon dioxide **or** gas can pass through'*

- the body needs a lot of oxygen
- so that a lot of carbon dioxide can be removed

*accept 'so that gas can pass through quickly'*

**[6]**

**Question 5:**

(a) it will increase it

*accept 'make it go up' **or** 'make it faster'*

(b) blood

*accept 'plasma'  
do **not** accept 'water'*

(c) carbon dioxide

**[3]**