

Combined Science - Biology - Key Stage 4

# End of topic review

Miss Strmec



*Convert the word equation  
into the symbol equation.*

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*Balance the symbol  
equation:*



# Independent Practice

Aerobic respiration is the release of \_\_\_\_\_ from the \_\_\_\_\_ you've eaten. Like burning, it requires \_\_\_\_\_ and produces \_\_\_\_\_ and \_\_\_\_\_ as waste products.

Word Bank:

oxygen, water, carbon dioxide, food, energy



# Independent Practice

1. This question is about respiration in yeast.

Complete the sentences by choosing words from this list.

aerobic                      anaerobic                      energy                      enzymes  
glucose                      hormones                      lactic acid

Yeast contain \_\_\_\_\_ which are needed for the stages in respiration.

Yeast can be used to make alcohol in the process of fermentation.

Fermentation involves \_\_\_\_\_ respiration.

All types of respiration release \_\_\_\_\_ from \_\_\_\_\_ .

[4]



# Independent Practice

1. Animals can respire by anaerobic or aerobic respiration.  
Which row in the table correctly describes aerobic and anaerobic respiration?

	an exothermic reaction	makes lactic acid
A	anaerobic only	both
B	both	aerobic only
C	aerobic only	anaerobic only
D	both	anaerobic only

Your answer

[1]

Credit: June 2015 - B401/02 - B2 Foundation - Medium - AO2, AO3



## Independent Practice

Evaluate the two types of respiration; aerobic and anaerobic. Give examples of activities where each type of respiration is used.

(4 marks)

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# Higher Tier Only: Independent Practice

Lactic acid is the product of anaerobic respiration.

Describe and explain two ways that lactic acid can be broken down and used in the body after anaerobic respiration.

(4 marks)

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