

# **YEAR 11 – AUTUMN COMBINED**

## **BIOLOGY KNOWLEDGE ORGANISERS**

### **B4.1 What happens during cellular respiration?**

B4.1.1 compare the processes of aerobic and anaerobic respiration, including conditions under which they occur, the inputs and outputs, and comparative yields of ATP

B4.1.2 explain why cellular respiration occurs continuously in all living cells

B4.1.3 explain how mitochondria in eukaryotic cells (plants and animals) are related to cellular respiration

B4.1.4 describe cellular respiration as an exothermic process

B4.1.5 a) describe practical investigations into the effect of different substrates on the rate of respiration in yeast *PAG5*

b) carry out rate calculations for chemical reactions in the context of cellular respiration M1a, M1c

More in-depth at - <https://ocr.org.uk/qualifications/gcse-twenty-first-century-science-suite-biology-b-j257-from-2016/delivery-guide/topic-gbb004-b4-using-food-and-controlling-growth/delivery-guide-gbbdg014-b41-what-happens-during-cellular-respiration>