



## GCSE Biology

Theme: Paper 1 (B1-Cell Biology, B2-Organisation, B3-Infection and Response and B4-Bioenergetics)

### Summer Break Preparation and Revision Work

New Year 10 and 11

#### Activity One – B1 Cell Biology

Draw and label the following cells:

- An animal cell
- A plant cell
- A bacterial cell

Pages 8 - 9 of your revision guide will help you to label the organelle. Complete the table to identify **cell similarities and differences**.

#### Activity Two – B2 Organisation

Create a poster to explain the **four components of blood and their functions, and the different types of blood vessel in the body**.

Include diagrams or drawings on your poster.

You can use **page 20** of your revision guide to help you, along with these **video links**:  
[https://www.youtube.com/watch?v=nc\\_kbfjhiUo](https://www.youtube.com/watch?v=nc_kbfjhiUo) – **Blood components**  
<https://www.youtube.com/watch?v=Wx-MrhIOFMk&t=128s> - **Vessels**

#### Activity Three – B3 Infection and Response

Create a mind map to identify all the different **non-specific defences that the body has against pathogens** that try to enter it.

There is a template that you could use to help you.

**Page 36** of your revision guide might also help you, along with this **video link**:  
<https://www.youtube.com/watch?v=5X9MklLVhlw>

#### Activity Four – B4 Bioenergetics

Compare the **similarities and differences between aerobic and anaerobic respiration**. Use the table to record information on.

**Pages 44 - 45** of your revision guide will help you, along with this **video link**:  
<https://www.youtube.com/watch?v=ZKAaDbTP6Dc>