



## GCSE Biology

Theme: Paper 2 (B5 – Homeostasis and Response, B6 – Inheritance, Variation and Evolution and B7 – Ecology)

### Summer Break Preparation and Revision Work

#### New Year 10 and 11

##### Activity One

1. Work through the GCSE Biology Paper 2 (B5, B6 and B7) Preparation and Revision Resources. In this PowerPoint there are areas to make notes on the different sections, along with exam style questions and revision broadsheets. To check your answers to the exam style questions, go to the end of the PowerPoint and they are highlighted in red. The page numbers on the PowerPoint relate to the AQA GCSE Biology Revision guide from Collins which the link is below if you haven't got one or have lost yours. GCSE Biology Revision Guide link:  
<https://www.amazon.co.uk/GCSE-Biology-Revision-Guide-Collins/dp/0008160678>
2. Work through the GCSE Biology Paper 2 (B5, B6 and B7) Activity Booklet.
3. Test your knowledge by answering the GCSE Biology Paper 2 (B5, B6 and B7) Exam Style Questions.

##### Activity Two (B5)

Research about the death of Leah Betts. Produce a report stating how she died and what caused her death. Link this into homeostasis and the hormones involved in regulating our water balance.

Use following article to help you:

<https://www.flandershealth.us/toxic-effects/leah-betts-died-of-drinking-water-to-counter-drugs-effect.html>

##### Activity Three (B6)

Produce a poster about why 'Dolly the Sheep' was so special in the world of Science.

1. State why 'Dolly the Sheep' was so fascinating.
2. The process that led to 'Dolly the Sheep' in as much detail as possible.
3. Other animals that were 'made' the same way as Dolly.
4. Do you think humans could be 'made' in this way?

##### Activity Four (B7)

Watch the following documentary 'Meat: A Threat to our Planet' and produce a letter to the government arguing whether you feel we should continue to eat as much meat and leave the meat industry how it is or we should reduce the meat industry and focus on the production on a more plant based diet. Include information in your argument about which one you think is a more sustainable method of food production for our planet and future generations.

Documentary:

<https://www.bbc.co.uk/iplayer/episode/m000bqsh/meat-a-threat-to-our-planet>

Watch the following David Attenborough documentaries about living organisms on our planet that relate heavily to the [B7 – Ecology](#) in such topics as; Ecosystems, Adaptations, Competition, Feeding Relationships, Disrupting Ecosystems, Biodiversity, Pollution and Overexploitation.

## Dynasties

- Chimpanzee  
<https://www.bbc.co.uk/iplayer/episode/p06mvpsw/dynasties-series-1-1-chimpanzee>
- Emperor Penguin  
<https://www.bbc.co.uk/iplayer/episode/p06mvqjc/dynasties-series-1-2-emperor>
- Lion  
<https://www.bbc.co.uk/iplayer/episode/p06mvr1c/dynasties-series-1-3-lion>
- Painted Wolf  
<https://www.bbc.co.uk/iplayer/episode/p06mvrr0/dynasties-series-1-4-painted-wolf>
- Tiger  
<https://www.bbc.co.uk/iplayer/episode/p06mvrwn/dynasties-series-1-5-tiger>

## Seven Worlds, One Planet

- Antarctica  
<https://www.bbc.co.uk/iplayer/episode/m0009tt8/seven-worlds-one-planet-series-1-1-antarctica>
- Asia  
<https://www.bbc.co.uk/iplayer/episode/m000b1tw/seven-worlds-one-planet-series-1-2-asia>
- South America  
<https://www.bbc.co.uk/iplayer/episode/m000b9f8/seven-worlds-one-planet-series-1-3-south-america>
- Australia  
<https://www.bbc.co.uk/iplayer/episode/m000bj0s/seven-worlds-one-planet-series-1-4-australia>
- Europe  
<https://www.bbc.co.uk/iplayer/episode/m000bqjg/seven-worlds-one-planet-series-1-5-europe>
- North America  
<https://www.bbc.co.uk/iplayer/episode/m000byxk/seven-worlds-one-planet-series-1-6-north-america>
- Africa  
<https://www.bbc.co.uk/iplayer/episode/m000c6pn/seven-worlds-one-planet-series-1-7-africa>