



## Science Tasks 2021

### Revision topics for Task 1 –

#### Cell Biology and Organisation Topics

Tasks will take place during the week commencing **10th May 2021**. Here is a list of areas within the topics to revise prior to the task.

##### **Cell Biology Topic**

- The parts of animal and plant cells
- Calculating magnification (you will be given the formula)
- Comparing electron and Light microscopes
- Diffusion, Osmosis and Active Transport
- Exchange surfaces – lungs/roots of plants

##### **Organisation Topic**

- Arteries, veins and capillaries
- The components of blood

## Science Tasks 2021

### Revision topics for Task 2 –



### Infection and Response and Bioenergetics Topics

Tasks will take place during the week commencing **10th May 2021**. Here is a list of topics to revise prior to the task.

#### **Infection and Response Topic**

- Malaria
- First line of defence against pathogens
- How white blood cells fight infection

#### **Bioenergetics**

- Photosynthesis
- Factors affecting the rate of photosynthesis
- Calculating the mean value
- Anomalous results
- Plotting a graph
- Line of best fit
- Respiration including symbol equation
- Anaerobic respiration in yeast



**Science Tasks 2021**  
**Revision topics for Task 3 –**  
**Homeostasis Topic**

Tasks will take place during the week commencing **17th May 2021**. Here is a list of topics to revise prior to the task.

- The menstrual cycle
- Contraception
- Dependent and independent variables
- Plant growth – including the plant hormones and gravitropism, phototropism and geotropism
- Kidney disease, dialysis and kidney transplants
- Reflex actions
- The Eye – parts and function

## Science Tasks 2021

### Revision topics for Task 4 –



### Inheritance, variation and evolution Topic

Tasks will take place during the week commencing **17th May 2021**. Here is a list of topics to revise prior to the task.

- Dominant and recessive alleles
- Genetic crosses
- Sex determination (genetic cross of sex chromosomes)
- Classification
- Fossils
- Extinction
- Mutations
- Natural Selection
- Structure of DNA
- The Human Genome