

# **Advance Information Exam June 2022**

## **Combined Biology GCSE Foundation**

### **Paper 1 Main Focus for revision**

#### Cell division

- Chromosomes
- Mitosis and the cell cycle
- Stem cells

#### Animal tissues, organs and organ systems

- The human digestive system and enzymes
- The heart and blood vessels
- Blood
- Health issues
- Non-communicable diseases
- Cancer

#### Communicable diseases

- Communicable diseases
- Viral, bacterial, fungal and protists diseases
- Human defence system, non-specific and immune system
- Vaccination
- Antibiotics and painkillers
- Discovery and development of drugs

#### Photosynthesis

- Equation
- Rate of photosynthesis, limiting factors

### **Practicals to revise**

- 1. Light microscope use and calculating magnification
- 3. Food tests
- 5. Photosynthesis and light intensity

### **Topics that may be assessed and should be reviewed**

- Eukaryotes and prokaryotes
- Animal and plant cells
- Cell specialisation
- Cell differentiation
- Microscopy
- Diffusion
- Plant tissues
- Plant organ system

## **Combined Biology GCSE Foundation**

### **Paper 2 Main Focus for revision**

#### Homeostasis

- Human endocrine system
- Control of blood glucose

#### Reproduction

- DNA and the genome
- Genetic inheritance
- Inherited disorders

#### Ecology

- Communities
- Abiotic and biotic
- Levels of organisation
- How materials are cycled

### **Practicals to revise**

- 7. Measuring populations and their distribution

### **Topics that may be assessed and should be reviewed**

- Genetic engineering
- Evidence for evolution
- Fossils
- Classification
- Waste management