



# Sandwell Academy

## Advanced General Certificate of Education BIOLOGY

### WHY BIOLOGY?

The opportunities for students of Science, on completion of full-time education, are enormous. There are many possible careers within the scientific world and qualifications in Science subjects are acceptable as an entry into many other careers.

Science students at Sandwell Academy will be prepared to move into Higher Education courses and careers in a wide variety of different fields including;

Physiotherapy	Forensic Science
Pharmacy	Veterinary Science
Medicine	Research Chemistry
Nursing	Aeronautics
Sports Science	Biological Sciences
Chemical Engineering	

The Science courses offered at Sandwell Academy are designed to provide academic and vocational experiences. They will prepare students for their choice of career in both the world of work and Higher Education.

### SPECIFIC ENTRY REQUIREMENTS

- Grade 6,6 overall for GCSE Combined Science (Trilogy) or a grade 6 for GCSE Biology (Separate Science)
- Grade 5 in GCSE Mathematics

### COURSE DETAILS

**OCR specification**  
**OCAPTc 0r**

### **3 Exchange and Transport**

### **Written examination**

You will study the structure and function of gas exchange and transport systems in a range of animals and plants. You will consider the significance of surface area to volume ratio in determining the need for ventilation, gas exchange and transport systems in multicellular organisms.

### **4 Biodiversity, Evolution and Disease**

### **Written examination**

You will study the biodiversity of organisms, you will consider how they are classified and the ways in which biodiversity can be measured and compared. You will also gain an understanding of pathogenic organisms and the way in which plants and animals have evolved defences to deal with disease. Furthermore, you will be indicted to the impact of evolution of these pathogens on the treatment of disease.

### **Examinations:**

1 Breadth in Biology

Content from modules 1-4

Weighting: 50%

2 Depth in Biology

Content from modules 1-4

Weighting: 50%

**OCR specification H420 Year 2: 2 new modules alongside 4 modules from Year 1**