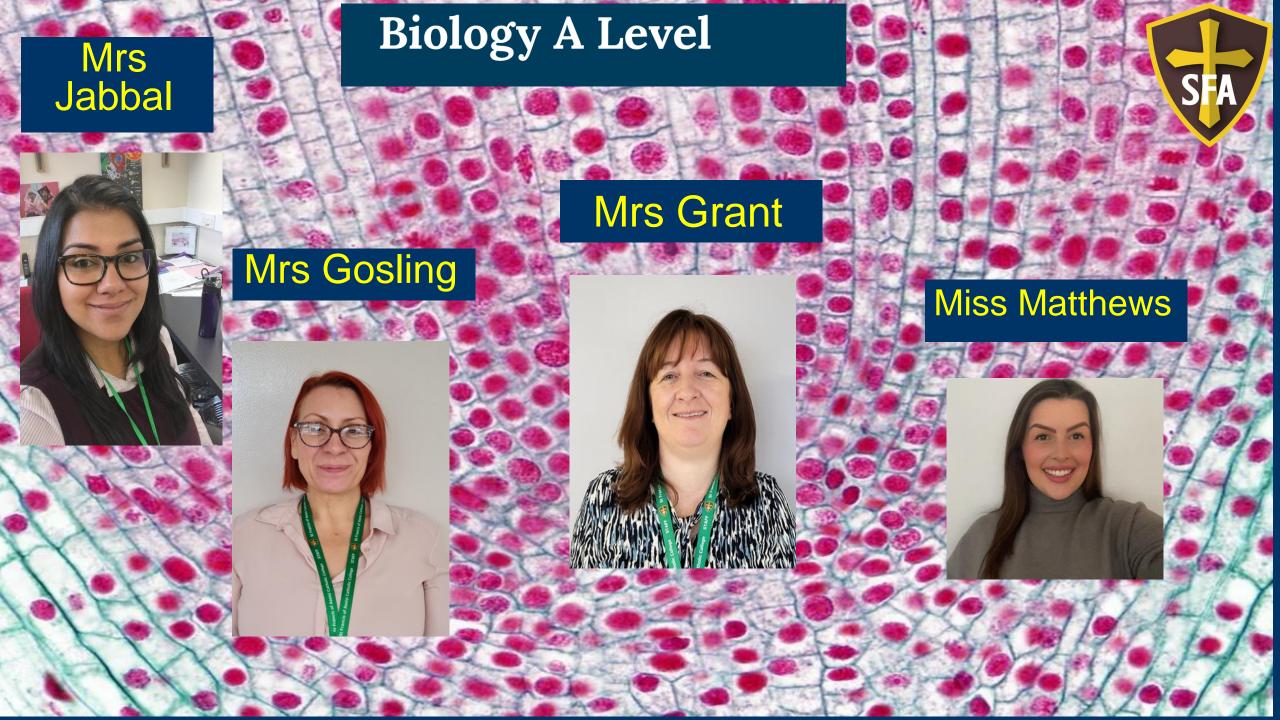
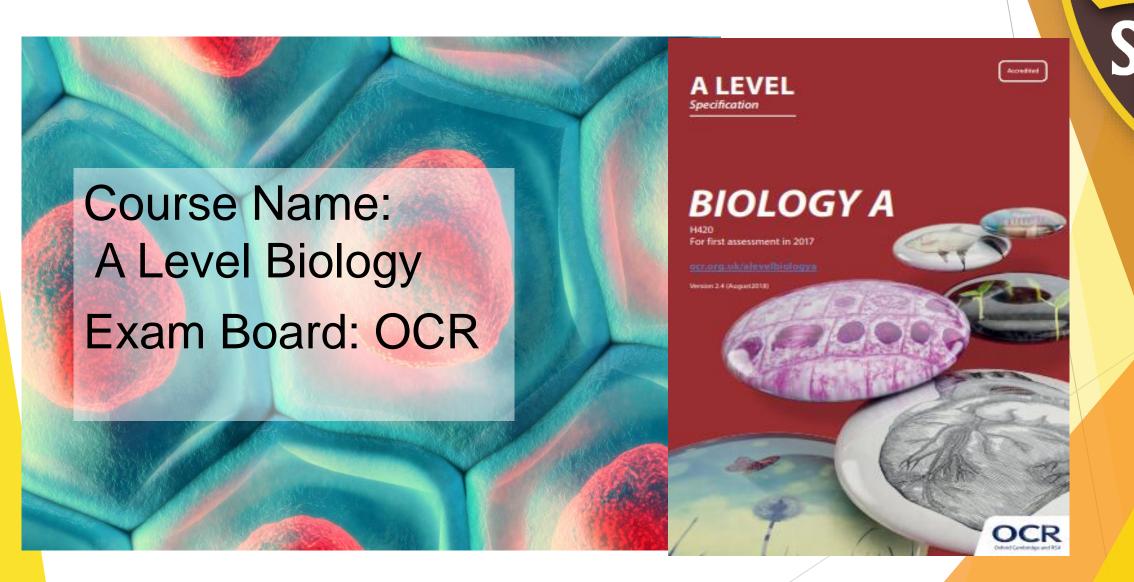


# Biology A Level





#### Course Details



### Course Outline

- Module 1 Development of Practical skills
- Module 2 Foundations in Biology
- Module 3 Exchange and Transport
- Module 4 Biodiversity, evolution and disease
- Module 5 Communication, homeostasis & energy
- Module 6 Genetics, evolution and ecosystems

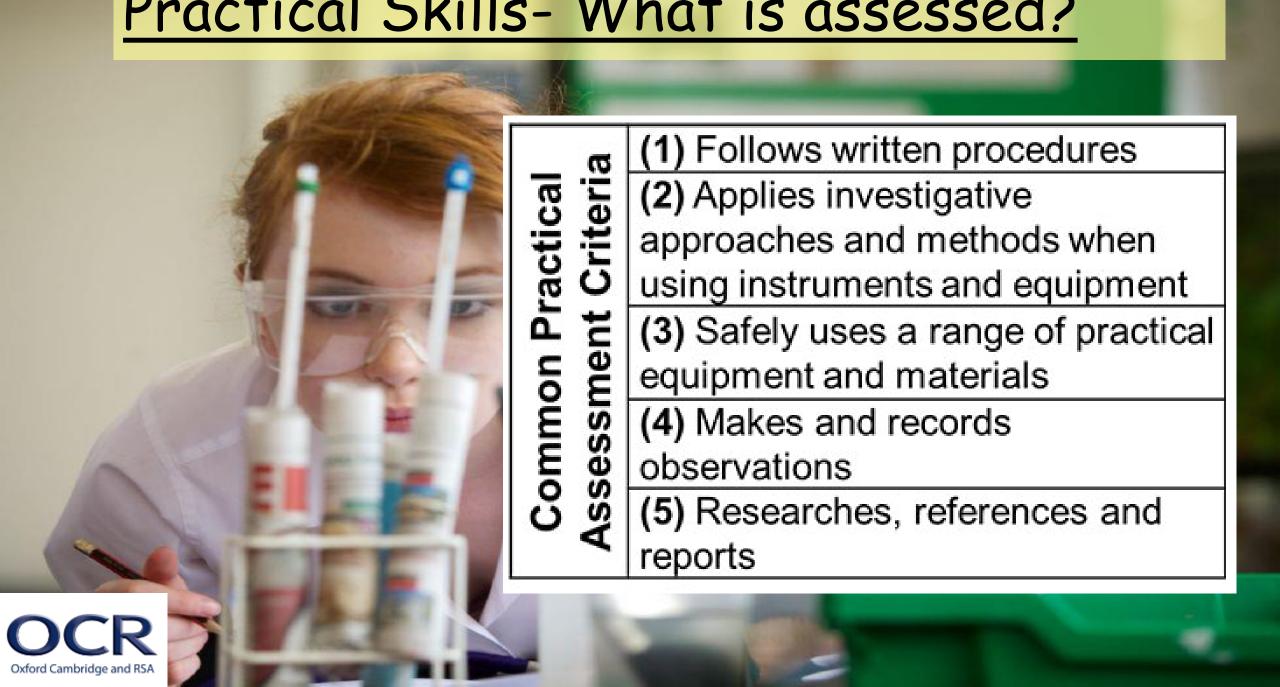


Module 1: Development of practical skills

- 1.2.1 Practical skills (written paper)
  - Independent thinking
  - Use and application of scientific methods and practices
  - Research and referencing
  - Instruments and equipment
- 1.2.2 Use of apparatus and techniques (practical endorsement minimum of 12 practicals)
  - ► E.g. microscopes
  - Safe and ethical use of organisms
  - Aseptic techniques
  - Dissections
  - Sampling in fieldwork
  - ICT computer modelling/data logging

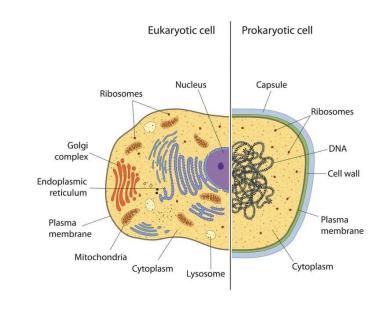


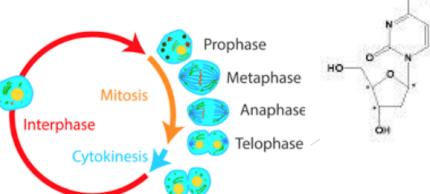
### Practical Skills-What is assessed?



### Module 2: Foundations in Biology

- Cell Structure
- Biological Molecules
- Nucleotides and Nucleic Acids
- Enzymes
- Biological Membranes
- Cell Division, Cell Diversity and Cellular Organisation

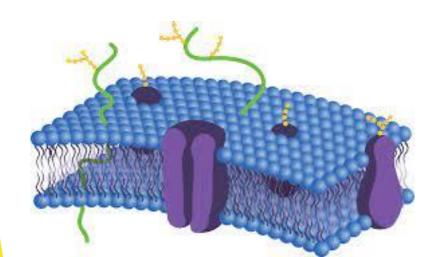






### Module 3: Exchange and Transport

- Exchange Surfaces
- ► Transport in animals
- ► Transport in plants

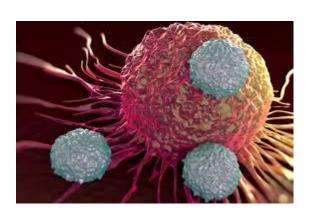




# Module 4 Biodiversity, Evolution and disease

- Communicable diseases disease prevention and the immune system
- Biodiversity
- Classification and evolution



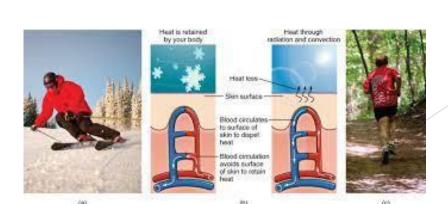






# Module 5: Communication, Homeostasis ~ and Energy

- Communication and Homeostasis
- Excretion as an example of homeostatic control
- Neuronal communication
- Hormonal communication
- Plant and animal responses
- Photosynthesis
- Respiration









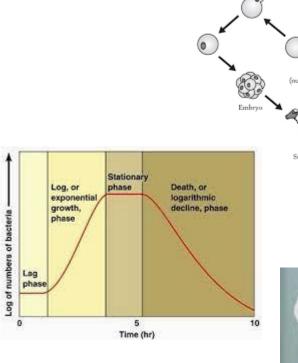
Module 6: Genetics, Evolution and

**Ecosystems** 

Cellular Control

Patterns of Inheritance

- Manipulating Genomes
- Cloning and Biotechnology
- Ecosystems
- Populations and Sustainability





### **Essential Course Details**

Paper	Component	Marks	Assesses content from modules	Duration	Weighting
1	Biological processes	100	1235	2hr 15min	37%
2	Biological diversity	100	1246	2hr 15min	37%
3	Unified Biology	70	123456	1hr 30min	26%
4	Practical endorsement	Non exam assessment		-	Pass/Fail

### Range of activities

- Practical Biology
- Supporting theory, practising skills
- Research skills
- Independent work, collaborative work
- Presentation skills
- Work as a team or individual, present research project
- Modelling
- Application of principles
- Ecological investigations







### Why choose Biology?

#### Biology is useful entry into:

- Any biological sciences e.g. biochemistry, physiology, zoology, marine biology, botany anatomy, genetics, biotechnology, pharmacology
- Medical sciences e.g. Pharmacy, medicine, dentistry, pathology
- Sport sciences
- Psychology or Sociology
- ▶ Other pure science e.g. Physics, Chemistry
- > Applied sciences e.g. Forensics, Archaeology
- Environmental Sciences.



and much more!

## Results

2024	100% A*-E	56% A*-C
2023	92% A*-E	42% A*-C
2022	92% A*-E	48% A*-C
2021	100% A*-E	65% A*-C
2020	100% A*-E	91% A*-C
2019	93% A*-E	65% A*-C



### Entry Requirements

7, 6 in Combined ScienceOr7 in Biology.

Must also have at least a grade 5 in Mathematics and English.

\*\*Note\*\*

To study two A level Sciences, you will need a grade 7,7 on combined sciences.

To study three A level Sciences, you will need a grade of 8,7 on combined sciences.

