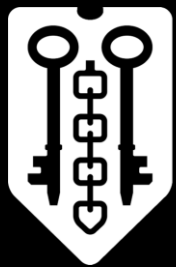


Sixth Form Induction Evening



Pool Hayes
Academy



Biology

Course content

Specification taught: A-Level Biology, OCR A (H420)

Content is in six modules, each divided into key topics:

Module 1: Development of practical skills in biology

Module 2: Foundations in biology

Module 3: Exchange and transport

Module 4: Biodiversity, evolution and disease

Module 5: Communication, homeostasis and energy

Module 6: Genetics, evolution and ecosystems

Course Two Year Plan

- Year 12
 - **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
- Year 13
 - **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

Future Prospects

Dentistry, Osteopath

Dentist, Dentistry nurse, bone specialist

Medicine

Doctor, nurse, consultant, analyst

Researcher

Dietitian / Nutritionist

Both professions focus on recommending the right meal and its benefits for people ■

Animal Welfare

Vets, veterinary nurses, zoologists

Food Industry

Chefs, cooks, bakers, farmers, chocolate manufacturing



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TEACHER!

