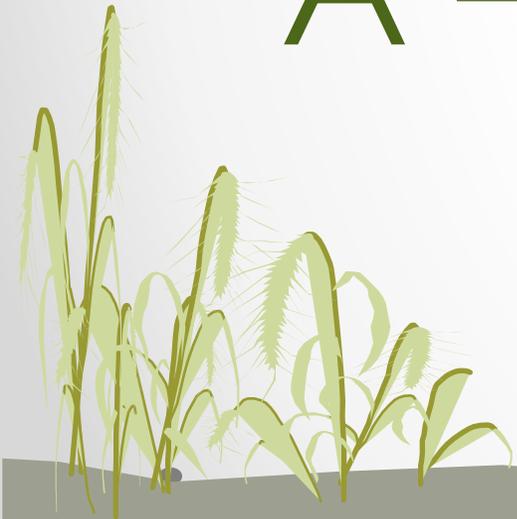


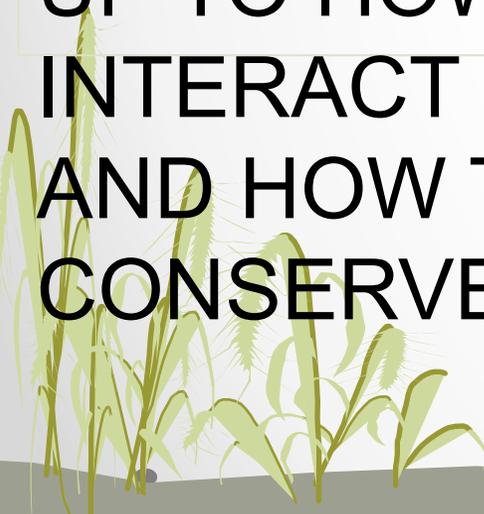
A – Level Biology at RPS

2021-23



Why choose A-Level Biology?

A-LEVEL BIOLOGY IS A BROAD AND FASCINATING SUBJECT, COVERING A RANGE OF TOPICS FROM THE BIOCHEMISTRY OF LIFE UP TO HOW ORGANISM INTERACT IN THEIR HABITAT AND HOW THEY CAN BE CONSERVED.



What's on the course?

TOPIC 1: LIFESTYLE, HEALTH AND RISK

TOPIC 2: GENES AND HEALTH

TOPIC 3: VOICE OF THE GENOME

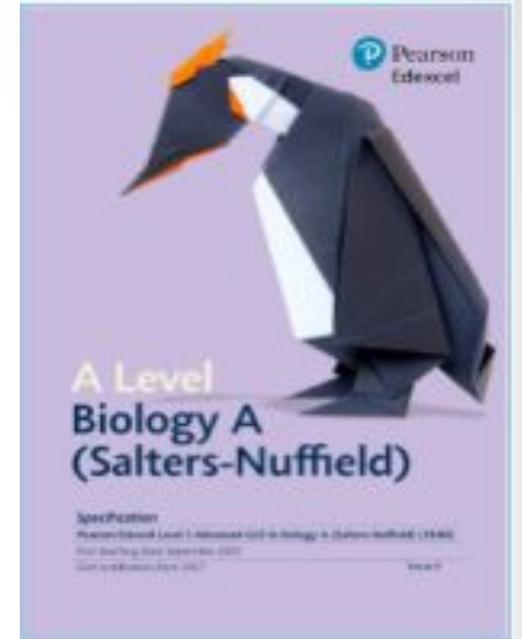
TOPIC 4: BIODIVERSITY AND NATURAL RESOURCES

TOPIC 5: ON THE WILD SIDE

TOPIC 6: IMMUNITY, INFECTION AND FORENSICS.

TOPIC 7: RUN FOR YOUR LIFE

TOPIC 8: GREY MATTER





RPS Biology



Possible careers

Research scientist Biologist Doctor Nurse Forensic scientist Ecologist
 Farmer Athlete Nutritionist Sports scientist Personal trainer
 Biochemical engineer Civil Engineer Paramedic CSI Police officer
 and many more!!

Higher education— Degree courses at universities.

Other post 18 options —Sponsored degrees, further education college courses?

Work - You might want to try and find a Traineeship, apprenticeship (such as an Intermediate Apprenticeship), a job with training or a part-time job.



TOPIC 8: GREY MATTER.

TOPIC 7: RUN FOR YOUR LIFE

TOPIC 5: ON THE WILD SIDE

TOPIC 4: BIODIVERSITY AND NATURAL RESOURCES

YEAR **13**



TOPIC 6: IMMUNITY, INFECTION AND FORENSICS.

TOPIC 3: VOICE OF THE GENOME

TOPIC 2: GENES AND HEALTH

YEAR **12**



TOPIC 1: LIFESTYLE, HEALTH AND RISK



What's on the course?

Assessment:

The A-Level is assessed by 3 examinations at the end of Year 13.

There is no coursework or practical assessment.

Paper 1: *The Natural Environment and Species Survival*
(100 marks – 2 hours)

Paper 2: *Energy, Exercise and Co-ordination*
(100 marks – 2 hours)

Paper 3: *General and Practical Applications in Biology*
(100 marks – 2 hours)





SCIENCE & RESEARCH

It's predicted that in the next few years, 1 in 4 jobs will have been created by science and research - leading to 140,000 new science jobs by the end of 2018.

CAREER PATHS

- Research Scientist
- Biologist
- Forensic Scientist



MEDICINE & HEALTHCARE

Graduates with degrees in healthcare are the most likely to find employment and often have the highest average annual pay.

CAREER PATHS

- Doctor
- Nurse
- Pharmacologist

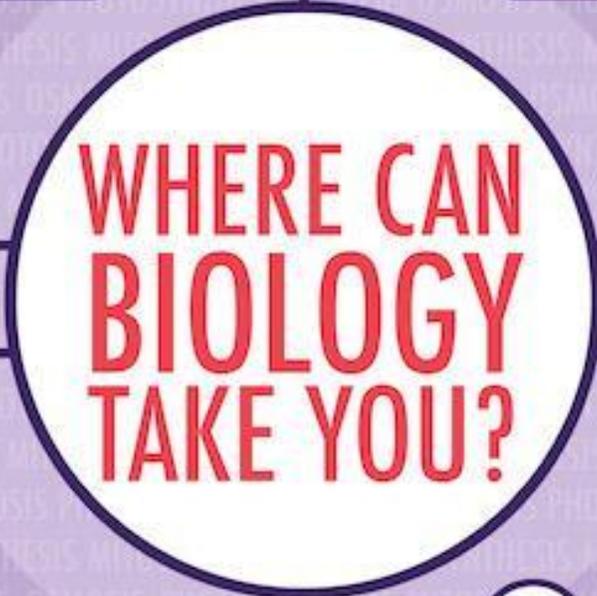


AGRICULTURE

Between 2010 and 2020, it's estimated that the agriculture industry will need 200,000 extra employees. This sector employs 3.5 million people across the UK!

CAREER PATHS

- Farmer
- Tree Surgeon
- Ecologist



SPORT & FITNESS

There are currently 440,000 people employed in the sport & fitness industry. This is 2.3% of all jobs! The biggest employers are football and horse racing.

CAREER PATHS

- Athlete
- Nutritionist
- Personal Trainer



ENGINEERING

42% of the engineering workforce in the UK is over the age of 45. This means there will be a huge demand for young engineers in the decades to come!

CAREER PATHS

- Biochemical Engineer
- Civil Engineer
- Mechanical Engineer

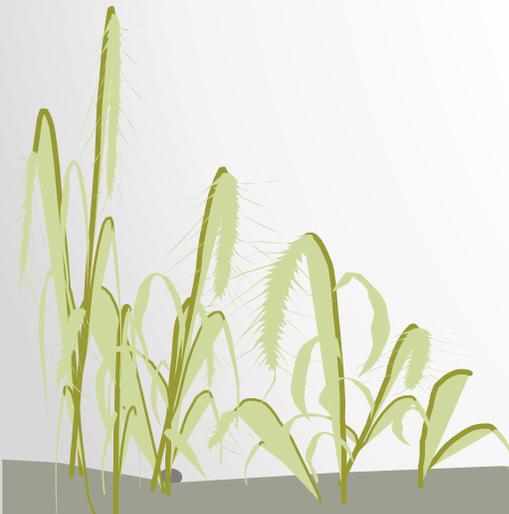


POLICE & EMERGENCIES

People who are trained paramedics are always in demand and the workforce is constantly rising. There is also a demand for people with digital and IT skills.

CAREER PATHS

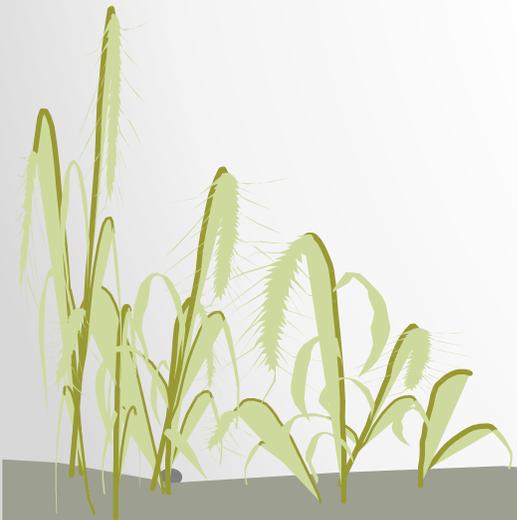
- Paramedic
- Crime Scene Investigator
- Police Officer



Topic 1 TOPIC 1: LIFESTYLE, HEALTH AND RISK



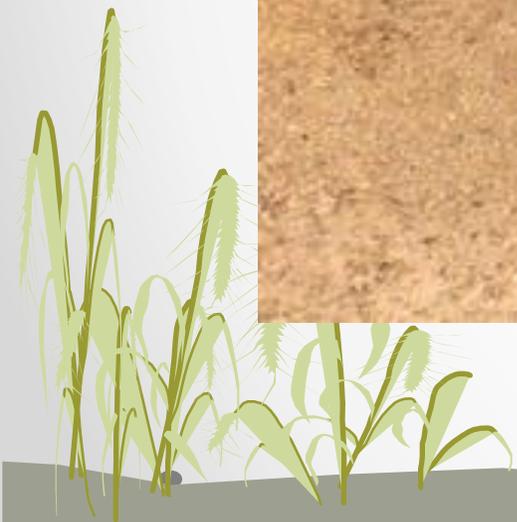
Topic 2 GENES AND HEALTH



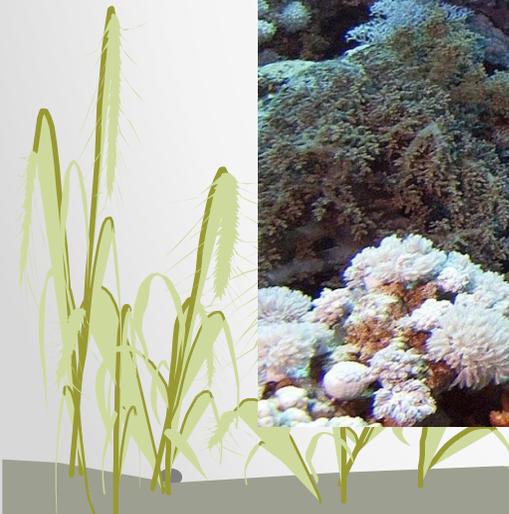
Topic 3 VOICE OF THE GENOME



Topic 4 : BIODIVERSITY AND NATURAL RESOURCES



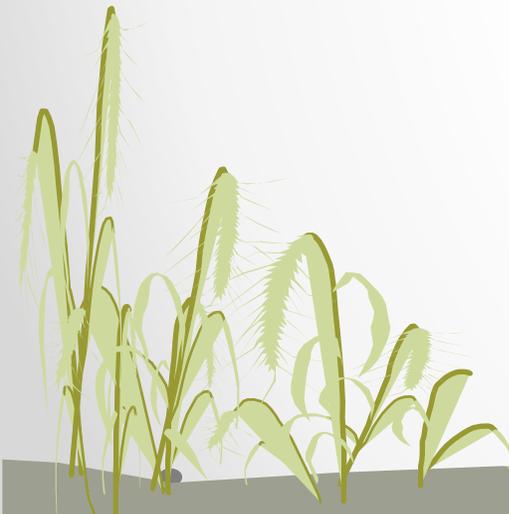
Topic 5 ON THE WILD SIDE



Topic 6 IMMUNITY, INFECTION AND FORENSICS.



Topic 7 RUN FOR YOUR LIFE



Topic 8 GREY MATTER

