

Year
12

Biology - A Level

Topic 1: Lifestyle Health and Risk

Looking at the effects and risks of cardiovascular diseases

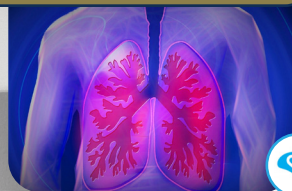
Analysing data and understanding risk factors and how to reduce your risk



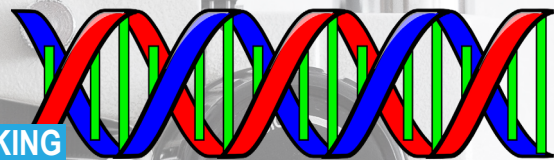
Topic 2: Genes and Health

Studying the effects of cystic fibrosis

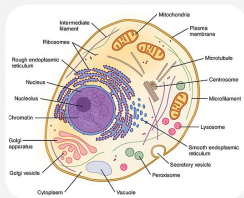
Understanding what can go wrong with DNA



LINKING



Students use interconnected prior knowledge about DNA



Topic 3: Voice of the Genome

Studying cell organelles and the cell cycle, looking at genes in relation to the environment.



HARD WORKING

Using deliberate practice to understand and remember the stages of both mitosis and meiosis.



Topic 4: Biodiversity and Natural Resources

Understand why there are so many different species and how organisms became so well adapted.

Students enjoy a trip to a zoo to look at conservation methods.



Strategy planning

Plan new ways to protect biodiversity and conserve endangered species.

Caroline
Chisholm
School

Ambition Confidence Success
Everyone Every Lesson Every Opportunity



Biology - A Level

Year
13



Topic 5: On the Wild Side

Understanding ecosystems and the process of photosynthesis.
Studying climate change and evolution.



ANALYSING



Students will use precision knowledge and a number of specific key words which need to be learned within sequence as part of understanding the stages of photosynthesis.



Topic 6: Infection, Immunity and Forensics

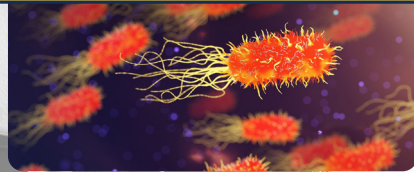
Studying DNA profiling and the immune system. Understanding how antibiotics are effective against bacterial infections.

META-THINKING



Meta-cognition

Using a wide range of thinking approaches to link learning from DNA to forensics and DNA profiling.



Hard working

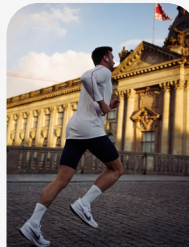
Using deliberate practice to help retain learning about respiration and its complex steps



Topic 7: Run for your Life

Understanding joint movement, muscle structure and function. Studying respiration and exercise.

Studying exercise and performance enhancing subjects.



Topic 8: Grey Matter

Studying the nervous system and hormonal control.
Understanding the different regions of the brain.



Linking



Linking an understanding of the nervous system to brain development.

A Level assessment:

Students are assessed by 3 written exams,
all held at the end of Year 13:
Each exam is 2 hours and worth 33.33% of final grade