

# LONG TERM PLANS

## Year Overview

### Science Faculty

#### YEAR 9

##### *Autumn term*

The autumn term assessment will take place in the fortnight before the Christmas Holidays and will cover:

##### **New Technology Biology**

Genetics and inherited disorders  
Selective breeding  
Cloning  
Genetic engineering  
Biotechnology  
Enzymes in industry

*[End of topic test, Literacy and Numeracy task]*

##### **New Technology Chemistry**

Nanoparticles and their uses  
Pros and Cons of cars  
New fuels and cleaning up exhausts  
Hybrid electric cars

*[End of topic test, Literacy and Numeracy task]*

##### **New Technology Physics**

Digital and analogue signals  
Energy efficiency and electricity demand  
Temperature  
Optical fibres  
Reaction times

*[End of topic test, Literacy and Numeracy task]*

##### *Spring term*

The spring term assessment will take place in the fortnight before the Easter Holidays and will cover:

##### **Turning Points Biology**

Vaccines and vaccinations  
Antibiotics  
Discover of DNA  
The work of Charles Darwin  
Preventing extinction

*[End of topic test, Literacy and Numeracy task]*

##### **Turning Points Chemistry**

Looking for atoms  
Evidence for atoms  
Lessons from fossils  
Discovering the periodic table

*[End of topic test, Literacy and Numeracy task]*

##### **Turning Points Physics**

Geocentric & heliocentric model  
The Big Bang  
Satellites and their orbits  
Space program (pros and cons)  
Radioactivity  
Electromagnetism

*[End of topic test, Literacy and Numeracy task]*

##### *Summer term*

The End of Year Assessment will take place towards the end of May and will cover:

<b>Detection Biology</b> Microscopes Fingerprints DNA fingerprinting Blood typing Forensics <i>[End of topic test, Literacy and Numeracy task]</i>	<b>Detection Chemistry</b> Separating solutions Neutralisation Chromatography Reactivity series Recycling <i>[End of topic test, Literacy and Numeracy task]</i>	<b>Detection Physics</b> Planets Alien life Solar System Position AM and FM signals Detecting particles <i>[End of topic test, Literacy and Numeracy task]</i>	<b>Start GCSE Studies</b>
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