

Science Curriculum Guide

Year 8

What will my son learn?		
Autumn term	Spring Term	Summer Term
<p><u>Chemistry:</u></p> <ol style="list-style-type: none">1. Rates of Reaction. (13 skills)2. The periodic table. (4 skills)3. Properties of materials. (5 skills) <p><u>Physics:</u></p> <ol style="list-style-type: none">4. Pressure in fluids. (7 skills)5. Forces and motion. (6 skills)6. Sound waves. (10 skills)	<p><u>Physics:</u></p> <ol style="list-style-type: none">1. Magnetism. (10 skills)2. Space & Gravity. (20 skills)	<p><u>Biology:</u></p> <ol style="list-style-type: none">1. Nutrition & Digestion. (4 skills)2. Reproduction & Drugs. (13 skills)3. Photosynthesis and relationships in an eco-system. (11 skills)4. Light waves and the eye. (7 skills)

How will my son be assessed?

There are three ways in which we will assess student progress.

The first is teacher judgment, which based on a holistic overview can supersede other forms of assessment. Teacher judgements will often be used to assess skills which we do not test for online and will take in to account book work, written homework and standardised written assessments.

Many skills will be assessed through our online learning platform: Doodle. This has a series of tests on it designed to test student understanding on each specific skill that students learn within a topic. Test scores are feedback to students straight away. Scores of 85% or more demonstrate that the student is secure for that particular skill and their test score will appear as green on our tracking. Scores between 65% and 84% will appear as amber and less than 65% red. It is highly important that these tests are all completed so do please encourage your son to complete any tests they may have to do in a timely fashion.

Lastly we carry out a large end of year test to test boys at the end of the year. This incorporates content that the boys have learnt throughout the year as well as testing their scientific skills. With linear assessment in public examinations at KS4, our last form of assessment is designed to mirror this and get boys in the habit of revising for and sitting exams that test a broad base of subject matter.

How can I support my son with Science?

- Encourage your son to be using the online platforms of Doodle and Fronter to access any online homework. Much of his homework will be assigned to his Doodle account.
- Log in to your sons account with him to see upcoming homework deadlines and progress in his assignments. Assignments that your son has not performed well in can be re-done to consolidate learning.
- Ensure that your son is properly equipped with his books, pen, pencil, ruler and rubber for every lesson. Please check the homework set in his planner, and contact us immediately, either through his planner or by telephone if you have any queries or concerns.
- Please read through your son's homework and monitor the quality of his work. Testing him on his learning when he is revising would be helpful. Join us in praising him for good work and improving test results.
- Encourage your son to read around the topic being taught. Talk to him about scientific ideas - there are many presented in the media. Encourage him to visit places of scientific interest - museums, field centres etc.
- Encourage safe (!) experiments at home.

