

KS4 Long Term Plan – 2021-2022

Subject: Chemistry

Exam Board: AQA

Curriculum Statement of Intent Science

The aim of the Science department here at St Pauls' is:

“Empowering students to take ownership of their learning enabling them to achieve outstanding results and become independent scientists realising the importance of science in their everyday lives. The Science Department are a dedicated, supportive team who value sharing good practice to make students be the best that they can be.”

Science at St Paul's is about developing student's ideas and ways of working that enable them to make sense of the world in which they live through investigation, as well as using and applying processing skills. We ensure that all children are exposed to high-quality teaching and learning experiences, which allow children to engage with practical experiments. They are immersed in scientific vocabulary, which aids students' knowledge and understanding not only of the topic they are studying, but of the world around them. We intend to provide all students with a broad and balanced Science curriculum and encourage them to develop a sense of excitement and curiosity about Science.

Science teaching at St.Paul's involves adapting and extending the curriculum to match all pupils' needs across all 3 Key Stages. We ensure that all students are provided with rich learning experiences that aim to:

- Prepare our children for life in an increasingly scientific and technological world today and in the future;
- Help our children acquire a growing understanding of the nature, processes and methods of scientific ideas;
- Help develop and extend our students scientific concept of their world;
- Build on our students natural curiosity and developing a scientific approach to problems;
- Encouraging open-mindedness, self-assessment, perseverance and developing the skills of 3 investigations – including: observing, measuring, predicting, hypothesising, experimenting, communicating, interpreting, explaining and evaluating;
- Develop the use of scientific language, recording and techniques;
- Make links between science and other subjects.

Curriculum Statement of Implementation

KS4: the GCSE Science curriculum is delivered across 3 years, currently with 2 Triple sets and 4 Trilogy sets in each year group. The students have 6 Science lessons a week, and each Science is taught by a specialist in that area which ensures that their subject knowledge is excellent. The curriculum is 'spiralled' so that the building blocks for each specialism are laid in Year 9 and then built upon throughout the 3 year program, with lots of quizzes and interleaving. We aim to finish teaching the curriculum content by December of Y11 so that we can then revise.

At the end of each topic the students have an End of Module test, which also includes an interleaved question from a previous topic, thus ensuring that the students are regularly reviewing previous learning. As well as embedding content throughout each module, the students also complete Required practicals, which help to develop their practical skills and promote their interest in science. These are written up in lab books which provide the method and also include exam style questions to help prepare them for external assessments.

We use 'Educake' for homework, which is an online Learning platform that develops the students AO1 skills. We also set Exam questions every few weeks to help the students develop their Higher level AO2 skills.

The impact and measure of our Science curriculum is to ensure students not only acquire the appropriate age related knowledge linked to the curriculum, but also skills which equip them to progress from their starting points, and within their everyday lives.

All children will have:

- A wider variety of skills linked to both scientific knowledge and understanding, and scientific enquiry/investigative skills;
- A richer vocabulary which will enable to articulate their understanding of taught concepts; and
- High aspirations, which will see them through to further study, work and a successful adult life.

2021/2022			
Week commencing	Trilogy	Triple	Year 9 Assessment Schedule
06/09/2021	Atomic Structure and the Periodic Table - 12 teaching lessons	Atomic Structure and the Periodic Table - 13 teaching lessons	
13/09/2021			
20/09/2021			
27/09/2021			
04/10/2021			
11/10/2021			
18/10/2021			
25/10/2021	Autumn half term		
01/11/2021	EOMT window	EOMT window	Exams
08/11/2021	Reflection	Reflection	Marks on spreadsheet
15/11/2021	Structure and Bonding 9 teaching lessons	Structure and Bonding 10 teaching lessons	Reports due Monday
22/11/2021			
29/11/2021			
06/12/2021			
13/12/2021			
20/12/2021	Christmas		
27/12/2021			
03/01/2022			
10/01/2022	Exams week - test on structure and bonding	Exams week - test on structure and bonding	Exams week
17/01/2022	Reflection	Reflection	Marks on spreadsheet
24/01/2022	Quantitative Chemistry - 11 teaching lessons	Quantitative Chemistry - 17 teaching lessons	Reports due Wednesday
31/01/2022			
07/02/2022			Parents evening
14/02/2022	Spring half term		
21/02/2022			
28/02/2022			
07/03/2022			
14/03/2022			
21/03/2022			
28/03/2022	EOMT		
04/04/2022	Easter		
11/04/2022			
18/04/2022	Revise AS+PT	EOMT	
25/04/2022	Revise AS+PT	Revise AS+PT	
02/05/2022	Revise S+B	Revise S+B	
09/05/2022	Revise S+B	Revise S+B	
16/05/2022	Revise QC	Revise QC	
23/05/2022	Revise QC	Revise QC	
30/05/2022	Summer half term		
06/06/2022			Exams
13/06/2022			Exams
20/06/2022	Chemical changes - 8 teaching lessons. Teach up to lesson 10 skipping the RP	Chemical changes - 8 teaching lessons. Teach up to lesson 10 skipping the RP	
27/06/2022			
04/07/2022			
11/07/2022			
18/07/2022			Reports due Monday
Year 10	Finish rest of CC	Finish rest of CC	
	Finish EC	Finish EC	
	Finish RoR	Finish RoR	
	Finish OC	Finish OC	
	Finish CA		
Year 11	Finish A	Finish CA	
	Finish UR	Finish A	
		Finish UR	

2021/2022			
Week commencing	Trilogy	Triple	Year 10 Assessment Schedule
06/09/2021	Chemical changes - start with lessons 9 and 10, then complete RP. Then continue with module. 9 teaching lessons	Chemical changes - start with lessons 9 and 10, then complete RP. Then continue with module. 11 teaching lessons	
13/09/2021			
20/09/2021			
27/09/2021			
04/10/2021	Finish CC no EOMT		
11/10/2021	Energy changes - 6 teaching lessons	Finish CC no EOMT	
18/10/2021		Energy changes - 8 teaching lessons	
25/10/2021	Autumn half term		
01/11/2021	Finish EC no EOMT		
08/11/2021	Revise CC		
15/11/2021	Revise CC	Finish EC no EOMT	
22/11/2021	Revise EC	Revise CC	
29/11/2021	EOMT on CC and EC	EOMT on CC and EC	Exams
06/12/2021	Reflection	Reflection	Marks on spreadsheet
13/12/2021	Rate of Reaction - 11 teaching lessons	Rate of Reaction - 11 teaching lessons	Reports due Monday
20/12/2021	Christmas		
27/12/2021	Christmas		
03/01/2022			
10/01/2022			
17/01/2022			
24/01/2022			
31/01/2022			
07/02/2022	ROR EOMT	ROR EOMT	
14/02/2022	Spring half term		
21/02/2022	Reflection	Reflection	
28/02/2022	Revise AS+PT	Revise AS+PT	
07/03/2022	Revise S+B	Revise S+B	
14/03/2022	Revise QC	Revise QC	
21/03/2022	Revise CC	Revise CC	Reports due Friday
28/03/2022	Revise EC	Revise EC	
04/04/2022	Easter		
11/04/2022	Easter		
18/04/2022			Exams
25/04/2022			Exams
02/05/2022	Reflection	Reflection	
09/05/2022	Organic chemistry - 5 teaching lessons	Organic chemistry - 12 teaching lessons	Reports due Friday
16/05/2022			
23/05/2022			
30/05/2022	Summer half term		
06/06/2022	Finish OC with EOMT		
13/06/2022	Reflection		
20/06/2022	Chemical analysis - 6 teaching lessons		
27/06/2022			
04/07/2022		Finish OC with EOMT	WEX???
11/07/2022		Reflection	
18/07/2022	Finish CA depends on WEX		
Year 11	Atmosphere Using resources	Chemical analysis Atmosphere Using resources	

	2021/2022		
Week commencing	Trilogy	Triple	Year 11 Assessment Schedule
06/09/2021	Chemical Analysis - 6 teaching lessons no EOMT	Chemical Analysis - 11 teaching lessons* no EOMT	
13/09/2021			
20/09/2021			
27/09/2021	Revise		
04/10/2021	Revise		
11/10/2021	Paper 2 hybrid mock with some Paper 1 content	Paper 2 hybrid mock with some Paper 1 content	Mocks
18/10/2021			Mocks
25/10/2021	Autumn half term		
01/11/2021	Chemistry of the atmosphere - 5 teaching lessons no EOMT	Chemistry of the atmosphere - 5 teaching lessons no EOMT	
08/11/2021			Reports due Wednesday
15/11/2021			Parents evening
22/11/2021	Using resources - 8 teaching lessons no EOMT	Using resources - 14 teaching lessons* no EOMT	
29/11/2021			
06/12/2021			
13/12/2021			
20/12/2021	Christmas		
27/12/2021			
03/01/2022	Revise paper 1		
10/01/2022			
17/01/2022		Revise paper 1	
24/01/2022			
31/01/2022	Paper 1	Paper 1	PPEs
07/02/2022			PPEs
14/02/2022	Spring half term		
21/02/2022		Organic chemistry triple content - 7 teaching lessons*	
28/02/2022			
07/03/2022			Reports due Wednesday
14/03/2022			Parents evening
21/03/2022			
28/03/2022	Internal paper 2	Internal paper 2	
04/04/2022	Easter		
11/04/2022			
18/04/2022			
25/04/2022			
02/05/2022			
09/05/2022			
16/05/2022			GCSEs
23/05/2022			GCSEs
30/05/2022	Summer half term		
06/06/2022			GCSEs
13/06/2022			GCSEs
20/06/2022			GCSEs
27/06/2022			
04/07/2022			
11/07/2022			
18/07/2022			