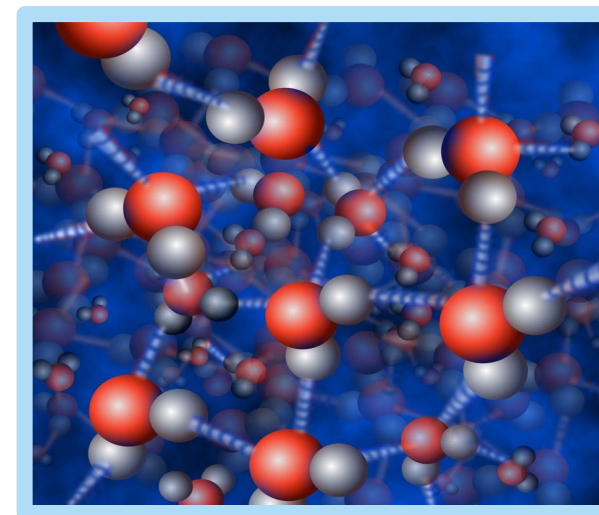


*Welcome
To
Chemistry Department
We offer AQA A Level Chemistry course*

*Our current cohort:
Year 12 – 24 pupils
Year 13 – 14 pupils*



1	H																	2	He																
3	Li	4	Be											5	B	6	C	7	N	8	O	9	F	10	Ne										
11	Na	12	Mg											13	Al	14	Si	15	P	16	S	17	Cl	18	Ar										
19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se	35	Br	36	Kr
37	Rb	38	Sr	39	Y	40	Zr	41	Nb	42	Mo	43	Tc	44	Ru	45	Rh	46	Pd	47	Ag	48	Cd	49	In	50	Sn	51	Sb	52	Te	53	I	54	Xe
55	Cs	56	Ba	57-71	Hf	72	Ta	73	W	74	Re	75	Os	76	Ir	77	Pt	78	Au	79	Hg	80	Tl	81	Pb	82	Bi	83	Po	84	At	85	Rn		
87	Fr	88	Ra	89-103	Rf	104	Db	105	Sg	106	Bh	107	Hs	108	Mt	109	Ds	110	Rg	111	Cn	112	Nh	113	Fl	114	Uu	115	Lv	116	Uus	117	Uuo		
89	La	90	Ce	91	Pr	92	Nd	93	Pm	94	Sm	95	Eu	96	Gd	97	Tb	98	Dy	99	Ho	100	Er	101	Tm	102	Yb	103	Lu						
91	Ac	92	Th	93	Pa	94	U	95	Np	96	Pu	97	Am	98	Cm	99	Bk	100	Cf	101	Es	102	Fm	103	Md	104	No	105	Lr						



The AQA A-Level course is a full two year course, awarding an A-Level certificate.

The course content is split over two years as detailed below.

Yr 12 (AS) Content:

Unit 1: Atomic structure, Amount of substance, Bonding, Energetics, Kinetics, Equilibria & Redox

Unit 2: Periodicity, Group 2 and Group 7 elements

Unit 3: Introduction to organic chemistry, Alkanes & haloalkanes, Alkenes & Alcohols, Organic analysis

Yr 13 (A2) Content:

Unit 4: Thermodynamics, Rate equations & K_p , Electrode potentials, Acids-Bases-pH

Unit 5: Periodicity 3 elements, Transition metals

Unit 6: Isomerism & carbonyl compounds, Aromatic compounds & Amines, Polymers,
Amino acids-Proteins-DNA, Further synthesis & Analysis

You will be asked to perform six required practicals in this year and will be internally assessed.

Apart from this requirement, you will have the opportunity to do other practicals too.

WHY STUDY A LEVEL CHEMISTRY?

Chemistry helps you to develop research, problem solving and analytical skills. It helps to you challenge ideas and show how you worked things out through logic and step-by-step reasoning.

Chemistry often requires teamwork and communication skills too, which is great for project management.



External Assessment

At the end of two years, you will sit for the external examination as shown below.



Paper 1	+	Paper 2	+	Paper 3
<p>What's assessed</p> <ul style="list-style-type: none"> Relevant Physical chemistry topics (sections 3.1.1 to 3.1.4, 3.1.6 to 3.1.8 and 3.1.10 to 3.1.12) Inorganic chemistry (Section 3.2) Relevant practical skills 		<p>What's assessed</p> <ul style="list-style-type: none"> Relevant Physical chemistry topics (sections 3.1.2 to 3.1.6 and 3.1.9) Organic chemistry (Section 3.3) Relevant practical skills 		<p>What's assessed</p> <ul style="list-style-type: none"> Any content Any practical skills
<p>How it's assessed</p> <ul style="list-style-type: none"> written exam: 2 hours 105 marks 35% of A-level 		<p>How it's assessed</p> <ul style="list-style-type: none"> written exam: 2 hours 105 marks 35% of A-level 		<p>How it's assessed</p> <ul style="list-style-type: none"> written exam: 2 hours 90 marks 30% of A-level
<p>Questions</p> <p>105 marks of short and long answer questions</p>		<p>Questions</p> <p>105 marks of short and long answer questions</p>		<p>Questions</p> <p>40 marks of questions on practical techniques and data analysis</p> <p>20 marks of questions testing across the specification</p> <p>30 marks of multiple choice questions</p>

What we offer:

We have four dedicated Chemistry specialists in our department handling the A-Level Chemistry curriculum. The department will not only guide and support you through the academics of A-level Chemistry but also provide you with a solid grounding in valuable life skills alongside it.

FUTURE CAREERS FOR A LEVEL CHEMISTRY

- Academic researcher
- Analytical chemist
- Biotechnologist
- Chemical engineer
- Clinical scientist, biochemistry
- Forensic scientist
- Nanotechnologist
- Medicine
- Pharmacologist
- Research scientist (physical sciences)
- Toxicologist



You can get more information on AQA A Level Course in Chemistry from
aqa.org.uk

Or

alevelscience@aqa.org.uk

Even easier contact

Email: Office@thewarrenschoo.net