



Hampton Court House

Curriculum Outline 2019/20 – Year 10 Chemistry (TJMW)

Autumn 2019

Principal Text: *AQA GCSE (9-1) Chemistry by CGP*

The GCSE chemistry course begins with the essential topics of atomic structure and the periodic table. This provides the foundation for the understanding of all future topics. We will then delve into the intricacies of chemical bonding, comparing ionic, covalent, and metallic structures.

Assessment:

Students will be assessed via terminal examinations at the end of Year 11, with internal tests and examinations interspersed along the way.

The AQA Chemistry course is designed to put practical work at a premium. There are twelve Required Practicals, for which students are formally assessed, amongst a multitude of other experimental work that applies the theoretical work.

Links with fundamental values
Scientific collaboration - Democracy, Mutual Respect
Laboratory rules - Rule of Law
Development of the atomic model - Mutual Respect
Science and society - Mutual Respect

Social, moral, spiritual and cultural content
Scientific collaboration - Social
Science and society - Moral & Cultural
Risks associated with nanoparticles - Moral

Opportunities to independently extend learning
To extend their learning students could read more advanced material such as A-Level Chemistry Textbooks or scientific periodicals.

Students should regularly consolidate their notes and conduct independent research on topics which they want to learn more about.

Spring 2020

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The Spring Term will focus on amount of substance and chemical reactions. The quantitative chemistry studied will be applied to evaluating both lab-scale and industrial-scale processes. Students will learn about classic examples of chemical changes. This will give students plenty of opportunities to apply the fundamentals about which they have been learning. Students will be carrying out several of the six Required Practicals during the term.

Summer 2020

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During the Summer Term, we will look at more advanced chemical reactions, studying REDOX reactions and relating them to the movement of electrons. They are also exposed to some industrial processes such as electrolysis and making salts. Triple science students will additionally study the process of titration, both in analytical and preparative contexts.