

Year 11 - Chemistry

Year 11 chemistry is where students begin to refine their understanding of the chemistry themes they have studied in their high school career, and further extend and challenge themselves with the most difficult concepts in the GCSE course

The work they complete through their five year journey will allow students to leave Rastrick High school as scientifically literate members of society.

Knowledge overview	Topic 1	Topic 2	Topic 3	Topic 4
Topic	Rates of reactions	Organic chemistry	Chemical analysis	Using Earth's resources
Theme	Chemical reactions 6	Earth's resources 4	Matter and the periodic table 5	Earth's resources 5
Overview	In this topic students will explore how the speed at which reactions occur can be measured and changed. Students will consider real world industrial processes and they will explain the importance of how these chemical	In this topic students will detail how crude oil is formed, extracted and separated into useful products. Students will evaluate the use of crude oil as a natural but finite resource and investigate the impact its use has on the	In this topic students will investigate the various techniques scientists use to identify unknown substances. Students will also practice the techniques used separate a variety of mixtures.	In this topic students will take an in depth look at how humans use the resources found on Earth and the impact their use is having on the planet. Students will evaluate and justify new techniques and practices aimed at reducing the