



## KS4 Learning overview

**Subject: Chemistry**

**Exam board: AQA**

Year 10		
Term	Topics	Extra learning opportunities
Autumn 1 & 2	Quantitative Chemistry  Chemical changes	Make three models of reactants and the products using skittles: <ol style="list-style-type: none"><li>1. Oxygen + Nitrogen</li><li>2. Carbon + oxygen</li><li>3. Water+ carbon dioxide</li></ol> A lot of chemical changes happen at home and all around us. Observe and record examples of some chemical changes happening at home and around you for one week.  <a href="#">Examples of Chemical Changes in Everyday Life (yourdictionary.com)</a>  Fun experiment: to observe a chemical change. Carry out and take pictures. Put some mentos into a bottle of coke.
Spring 1 & 2	Energy changes	Exothermic and endothermic reactions When a chemical reaction occurs, energy is transferred to or from the surroundings. Research some examples of these types of reactions that occur in everyday Life.  <a href="#">Exothermic and Endothermic Reactions In Everyday Life by Lydia D'souza (prezi.com)</a>

Summer 1 & 2	Rate and extent of chemical change	<p>Research the effect of temperature on rate of reaction by making lava at home. Write a report on the outcome. Make sure you include pictures of your fun experiment.</p> <p>Use this link:</p> <p><a href="https://www.sciencebuddies.org/STEM-activities/Make-an-Alka-Seltzer-Powered-Lava-Lamp">Make an Alka-Seltzer Powered Lava Lamp   STEM Activity (sciencebuddies.org)</a></p>
--------------	------------------------------------	--