

Chemistry Super curriculum – Years 12 & 13

 <p>Periodic Tales, the Curious Lives of the Elements. Hugh Aldersey Williams</p>	 <p>The Science of Everyday Life: Why Teapots Dribble, Toast Burns and Light Bulbs Shine. Marty Jopson</p>	 <p>The Disappearing Spoon...and other true tales from the Periodic Table, Sam Kean</p>
 <p>Fantastic Four movie and then watch the clip where the science is explained http://nerdist.com/michio-kakuexplains-the-real-sciencebehind-fantastic-four/</p> 	 <p>10 weird and wonderful chemical reactions https://www.youtube.com/watch?v=0Bt6RPP2ANI</p> 	 <p>Crash course videos https://www.youtube.com/playlist?list=PL3EED4C1D684D3ADF</p> 
 <p>Learn to sing the Elements Song by Tom Lehrer.</p>	 <p>Create a twitter account, follow 10 relevant Chemistry organisations e.g. Royal Society of Chemistry, New scientist, BBC Science news etc</p>	 <p>Make a 'silver' egg http://www.housingaforest.com/silver-egg-experiment/</p>
 <p>5 podcasts of different elements from the periodic table http://www.rsc.org/periodictable/podcast</p>	 <p>1 podcast from the Radiolab http://www.radiolab.org/</p>	 <p>3 Material World podcasts https://www.bbc.co.uk/programmes/b006qyyb</p>
 <p>Diamond Synchrotron in Oxford</p>	 <p>Grow your own crystal e.g. salt http://www.sciencekids.co.nz/projects/saltcrystals.html</p>	 <p>Research an experiment that is safe to do with kitchen chemicals and carry it out.</p>

Other Books:

- The Pleasure of Finding Things Out – Richard Feynman
- Periodic Tales – Hugh Aldersey- Williams
- The Disappearing Spoon – Sam Kean
- Uncle Tungsten – Oliver Sachs
- The Shocking History of Phosphorous: A Biography of the Devil's Element – John Emsley

Magazines/journals:

- Scientific American
- New Scientist
- The Mole

Places of Interest – London:

- Royal Society of Chemistry
- Science Museum
- Museum of the History of Science (Oxford)

Websites

- Periodic Table of Videos by Martyn Poliakoff (youtube)
- www.rsc.org.uk
- www.icheme.org (Institution of Chemical Engineers)
- www.chemguide.co.uk