Preparing for Sixth Form and Post-16 study

Subject: Triple chemistry

*Key skills in * subject for A-level/Post-16 study:*

- Be able to do mole calculations
- Identify different organic molecules like: alkanes, alkenes alcohols, carboxylic acids, and the ester – ethyl ethanoate
- Know the difference between addition polymerisation and condensation polymerisation
- Identify the natural polymers : polysaccharides, proteins and DNA
- and know the small molecules which build these polymers Identify a reversible reaction
- Explain dynamic equilibrium in reversible reactions
- Use Le Chatellier's principle to explain how yields can be changed by altering the reaction conditions

Suggested background reading that will help you to understand the context of this subject post-16:

- Useful book/s to read:
- Websites to look at/webpage information to read:

  Oak academy (key stage 4, chemistry, organic chemistry)
- Lesson 7 and 8 alcohols
- Lesson 9 carboxylic acids
- Lesson 10 +11 Natural , addition polymers and condensation polymerisation.
- Oak academy (key stage 4, chemistry, The rate and extent of chemical change)
- Lesson 11-14

Relevant films/videos to watch:

My GCSE science.com

- Section 3 – quantitative chemistry (all sections)
- Section 6 – rate and extent of chemical change (reversible reactions and equilibrium and factors affecting equilibrium)
- Section 7 – organic chemistry

TASKS:

Answer the relevant questions which are included with each video tutorial

Watch any of the periodic table element videos on You Tube . These are made by **Nottingham University** and they discuss the chemistry of each element