

## BRIDGING WORK and ACADEMIC READING

### Level 3 Engineering

In the first part of your Y12 course, you will be looking into the design and manufacture of engineered items. In order to do this successfully, you need a basic working knowledge of some production processes.

Your bridging task is to produce a set of background information for the following techniques.

#### Processes

- Injection Moulding of plastics
- Quenching and Tempering of steel
- Laying up of carbon fibre sheets

#### Requirements

For each of the above processes, the **minimum** you must find is:

- What materials are they used for – specific names please?
- How is the process carried out?
- Why is it a good process to use in Engineering?
- What are the disadvantages of this process?
- How sustainable (environmentally friendly) is this process?

*All work must be your own – copying text from websites is plagiarism and will cause you to fail a unit if handed in at the end. Please reference any sources used, particularly if you include pictures.*

Work can be emailed to [pe@waleshigh.com](mailto:pe@waleshigh.com) or handed in in your 1<sup>st</sup> lesson

Academic Reading List		
News articles relating to:	The following websites' technical content:	
Sustainable Transport	<a href="http://romaxtech.com/">romaxtech.com/</a>	
Engineering Design	<a href="http://itm-power.com/">itm-power.com/</a>	
Materials	<a href="http://www.smallpeicetrust.org.uk/">www.smallpeicetrust.org.uk/</a>	
Teamwork in Engineering		