



## Conyers Sixth Form Transition Work

### Engineering

*Congratulations on your enrolment to Conyers Sixth Form; please find below, tasks that will aid your transition from GCSE to Level 3 study. Your subject teacher will check completion of this work in September.*

#### 1. Watch

<https://www.youtube.com/watch?v=aAQ7vj6STMA>

<https://www.youtube.com/watch?v=Zp9xePMDdT&t=62s>

<https://www.youtube.com/user/labmanvideo>

#### 2. Investigate - Lubrication Systems

You will produce a maintenance document for a family car.

First, investigate into the engine oil lubrication system used in your family car (If you do not have access to a family car use a Vauxhall Corsa 1.4 petrol as your example.) Identify the type of lubricant used and why.

Then, produce a maintenance document:

On page 1 include - Title page with your Name and your Target Vehicle specification (photograph of car, make, model, engine size, fuel type, year of manufacture.

On page 2 - Follow this up with a detailed account of how the engine oil system works and draw / sketch out the lubrication system in the car you have inspected. Clearly identify the oil circulation route and all key mechanical parts. You will come across technical vocabulary such: SUMP, OIL FILTER, DIP STICK, OIL FILLER CAP, FORCE FEED, DRIP/GRAVITY FEED, SPLASH FEED, SYNTHETIC.

On page 3 - answer the following questions about your system. How much oil is required for your target vehicle? What type of oil is recommended for your target vehicle? How do you know if you need to add oil to the engine? You will get this information from the service manual or alternatively you will have to Google!!!

Finally, on page 4 - investigate into the different subsystems used in lubricating a typical family car engine such as Force Feed, Drip/Gravity feed and Splash Feed. Write a short paragraph about each sub-system. Add a drawing/sketch to help describe each system. Don't forget to annotate your drawing/sketch

This maintenance log will be used with Mr Slimings in September.

### **3. Investigate - LABMAN**

You will be doing a lot of work around the company LABMAN in year 12. To gain a head start in this unit you will need to research into the company.

I want you to find out and put into a short information sheet:

- Who they are
- What they do
- Products they make
- All of the roles in the company
- Any other information you can find out.

This information sheet will be used with Mrs Nicol in September.