

Engineering Revision

Year 11 Homework Booklet 2

Due Date: _____



Pupil: _____

Class: _____



Homework should be completed each weekly and handed in to your teacher on the date it is due.

Any issues with the homework must be addressed with your teacher before the due date.

Week	Task title	Summary
9	Research Task	Research the following adhesives and what they are used for: Cyanoacrylate (super glue), Contact adhesive, Wood glue and Spray adhesive.
10	Research Task	Research the process of finishing car bodywork
11	Research Task	Research lacquer, electroplating and powder coating.
12	Research Task	Research CNC welding machines, find examples of products made by using them.
13	Research Task	Research five axis CNC milling machines.
14	Research Task	You work for a power tool manufacturer, and you have been asked to create a safety manual for a power tool of your choice.
15	Research Task	Create a risk assessment for a circular saw, band saw, or scroll saw. Include at least three hazards, risks, and control measures.
16	Research Task	Your employer has asked you to create a poster explaining the hierarchy of controls, so that all staff are able to understand the process and offer suggestions for safety improvements in the workplace.

Home study 9: Research task



Research the following adhesives and what they are used for:

- Cyanoacrylate (super glue).
- Contact adhesive.
- Wood glue.
- Spray adhesive.

Home study 10: Research task



Research the process of finishing car bodywork.

Write a brief report about your findings, you could include information on filing, abrading, priming, spray painting, polishing, and waxing.

Home study 11: Research task



Research lacquer, electroplating and powder coating.

Write an informational leaflet that explains these surface finishes and why an engineer might select one of them.

Home study 12: Research task



Research CNC welding machines, find examples of products made by using them.

Explain why a car manufacturer should consider investing in them to modernise their production line.

Home study 13: Research task



Research five axis CNC milling machines.

Find out the benefits and limitations of using these machines and create an advertisement explaining why they are the future of manufacturing.

Home study 14: Research task



You work for a power tool manufacturer, and you have been asked to create a safety manual for a power tool of your choice. Use formal English and pictures.

Home study 15: Research task



Create a risk assessment for a circular saw, band saw, or scroll saw. Include at least three hazards, risks, and control measures.

Hazard	Risk	Rating (L, M, H) likelihood	Control measures (actions, equipment)

Home study 16: Poster



Your employer has asked you to create a poster explaining the hierarchy of controls, so that all staff are able to understand the process and offer suggestions for safety improvements in the workplace.