

Department: Term 2 Person leading of H/W:

Year group	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
7 (There is a worksheet for each homework)	Standard components and product manufacture. Describe the advantages to a manufacturer of using standard components. You should name and describe a product in your answer. Questions on worksheet.	Plastics and recycling – questions on products manufactured from plastics. Questions on worksheet.	The environment and product design. Why is it important to design and manufacture products so that they are environmentally friendly. Questions on worksheet.	Recycling – upcycling. What is upcycling? How could the product on the worksheet be upcycled? Questions on worksheet.	Product lifecycle. Questions on worksheet about aspects of product lifecycle. What does it mean? Complete the diagram on the family car example.	Design a stamp to fit with your cultural theme from your jewellery project. Worksheet with template.
8 (There is a worksheet for each homework)	<u>Design Inspiration:</u> Designers often find inspiration through the use of mood boards. The example you have been given has an African theme. Study the mood board and select 2 of the following pieces of furniture table- chair-shelf-stool-lamp stand	<u>Why use models?:</u> Examine what is wrong with the design, based on the model. How would you improve it?	<u>Modelling and prototyping exam question:</u> Explain why modelling and prototyping is important during the development of a product and the development of design ideas.	<u>Manufacturing a product:</u> Select one of the two designs. Each could be manufactured in a school workshop. Select a design and state a suitable material for it to be manufactured out of. What is a prototype/one off?	<u>Basic workshop tools and equipment recap:</u> Name the tools and equipment shown on your worksheet. State a typical use for each.	<u>Packaging design:</u> Design the packaging to a product of your choice, using the cuboid development on the page

	Develop a design for your chosen pieces of furniture using the mood board					
9 This work will be completed in dedicated homework exercise books.	Design Movements Timeline, with key movements mapped in correct sequence.	Complete a product analysis of one of the items on the worksheet. Use the toolkit to complete detailed analysis of all aspects.	Complete the materials and sustainability exam question, discuss why some materials are combined- what might the advantages of this be? (2012 paper)	Developing products exam question (2013 paper)	Analysis of Charles Rennie Macintosh chair- worksheet	Complete the tasks about the work of Art Deco designer Eileen Grey. Fill in the missing words and complete the orthographic drawing
10 This work will be completed in dedicated homework exercise books.	Scale of production- compete the Batch production exam question, planning a suitable production plan. (2012 paper)	Anthropometrics Discuss the diagrams and explain how this data will be applied. Annotate to show where measurements would be needed on the remaining diagrams.	Ergonomics – Design of a recycling bin- complete the two tasks to show your understanding of how the design works.	Smart Materials – complete the worksheet on thermochromic inks including practical applications task.	Smart Mat 2- plastics – complete the worksheet on polymorph including practical applications task.	Plastics and recycling – Find out the meanings of the symbols. Which can be recycled?