Design and Technology

Year 8 Homework



Pupil: Class: Due Date:



Sequence		Summary		
1	Drawing Skills	Draw 4 different garden tools that are used to dig in the garden and describe how each should be used.		
2	Product Analysis	Create a product analysis to analyse a garden tool		
3	Investigating metals	Use research to create a chart, pamphlet, comic strip, poster or essay in the space to show your research results		
4	Risk Assessment	Complete a risk assessment of tasks carried out at home, school or somewhere else.		
5	Drawing Skills	Make drawings look like different materials.		
6	Wider Impact of Design	Produce a poster, presentation or write an essay that explains the impact of globalisation and the consumer society.		
7	Tools and Materials	Identify and label the tools and materials in the pictures.		
8	Engineering	Investigate what types of engineering there are and the types of jobs		

Week 1: Drawing Skills

Dr be	aw 4 different garden tools that are used to dig in the garden and describe how each should used.

Week 2: Product Analysis

Choose one of the garden tools that you drew last week and analyse the product

What is the products name?		
What company produces the product?		
Use descriptive language to explain how it r	night look a	ind feel.
Who would buy this product and why?	What is the well? If no	he product meant to do? Does it do it
		os,, .
How has the designer considered the environment in the product? If they haven't at all then have a supplied to the considered the environment of the considered the		What materials is this product made from? Why do you think the
could they change it to be better?		designer chose these materials?
Is this product safe to use? Are there any ha with this product? How could they be fixed?		
What makes this product appealing to custo	omers? Why	? If it is unappealing, why?

Week 3: Investigating Metals

from? What are they used for? What are some have good or bad properties of metals What examples of a products are there that metals are used to make. Use what you find out about the question and create a chart, pamphlet, comic strip, poster or essay in the space below to show your research results.

Investigate metals thinking about the following questions. How do we get metals? Where do they come

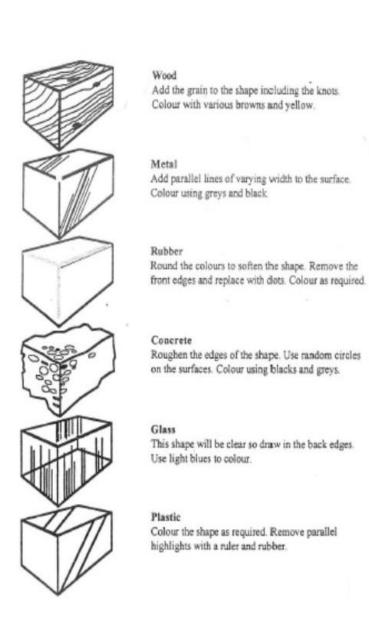
Week 4: Risk Assessment

Complete a risk assessment of tasks carried out at home, school or somewhere else.

How can you reduce the risk?			
Risk			
Likelihood			
Severity			
Who might be harmed and how?			
What is the task and what are the hazards?			

Week 5: Drawing skills

Create 6 drawings of a block of materials and make them look like the material by adding pattern and colour. Use the examples to help you create the texture.



Week 6: Wider Impact of Design

Use the space below to produce a poster, presentation or write an essay that explains the impact of globalisation and the consumer society.

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- What is globalisation?
- How has globalisation affected the world?
- Is it a good thing or a bad thing?
- Should we encourage people to keep buying new things?
- What are the problems with changes in fashion and trends?

Week 7: Tools and Materials

Use the word bank to identify the tools and materials; label each image with the correct name and describe what you use them for .

Vice, Wet and Dry Paper, Pillar Drill, Tinsnips, Bench Hook, Disk Sander, Scroll Saw, File, cordless drill





















Week 8: Engineering

There are 9 main types of engineering these are Aerospace, Automotive, Bio medical, Chemical,
Civil, Communication, Electrical, Mechanical and Software engineering. Choose one and
investigate what the main activities that are undertaken and the kind of jobs that are in this
discipline.

n the box below organise what you have discovered in a way you feel best put that information cross to others, to promote that part of engineering