

Design and Technology

Year 7 Homework



Pupil:

Class:

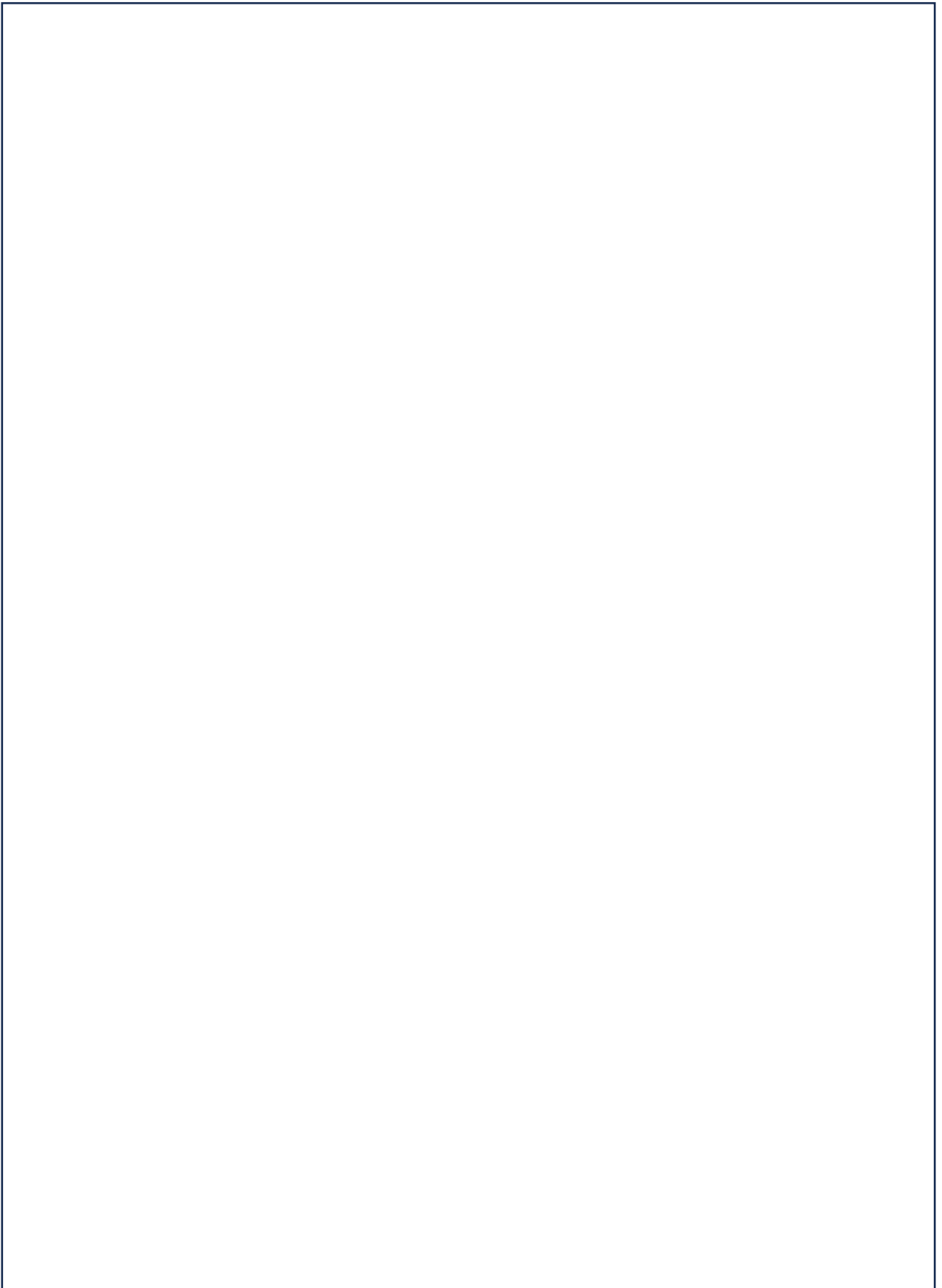
Due Date:



Sequence		Summary
1	Drawing Skills	Using modern day transport as your inspiration draw 4 different lorries
2	Drawing skills	Draw a product that young children use to learn a skill, like hand eye co-ordination
3	Product analysis	Complete a detailed analysis of a product of your choice designed to be played with by children
4	Risk Assessment	Complete a risk assessment of tasks carried out at home, school or somewhere else.
5	Drawing Skills	Draw 4 tools that you have used in the workshop and describe what they are used for.
6	Wider Impact of Design	Produce a poster, presentation or write an essay that explains the impact of deforestation.
7	Tools and Materials	Identify and label the tools and materials in the pictures.
8	Maths in DT	Complete the graph using the information given

Week 1: Drawing and research skills

Using modern day transport as your inspiration draw 4 different lorries that are on the road today in the space below. Remember to use colour to capture how they stand out on the road.



Week 2: Drawing Skills

Draw a product that young children use to learn a skill, like hand eye co- ordination, some examples are given below, choose a product that you will use next week to do a product analysis

A large empty rectangular box with a thin black border, intended for drawing a product for analysis.

Week 3: Product Analysis

Complete a detailed analysis of a product of your choice designed to be played with by children

What is the products name?

Who was the products designer?

When was the product designed?

Use descriptive language to explain how it might look and feel.

Who would buy this product and why?

What is the product meant to do? Does it do it well? If not, why?

How has the designer considered the environment in the product? If they haven't at all then how could they change it to be better?

What materials is this product made from? Why do you think the designer chose these materials?

Is this product safe to use? Are there any hazards with this product? How could they be fixed?

What makes this product appealing to customers? Why? If it is unappealing, why?

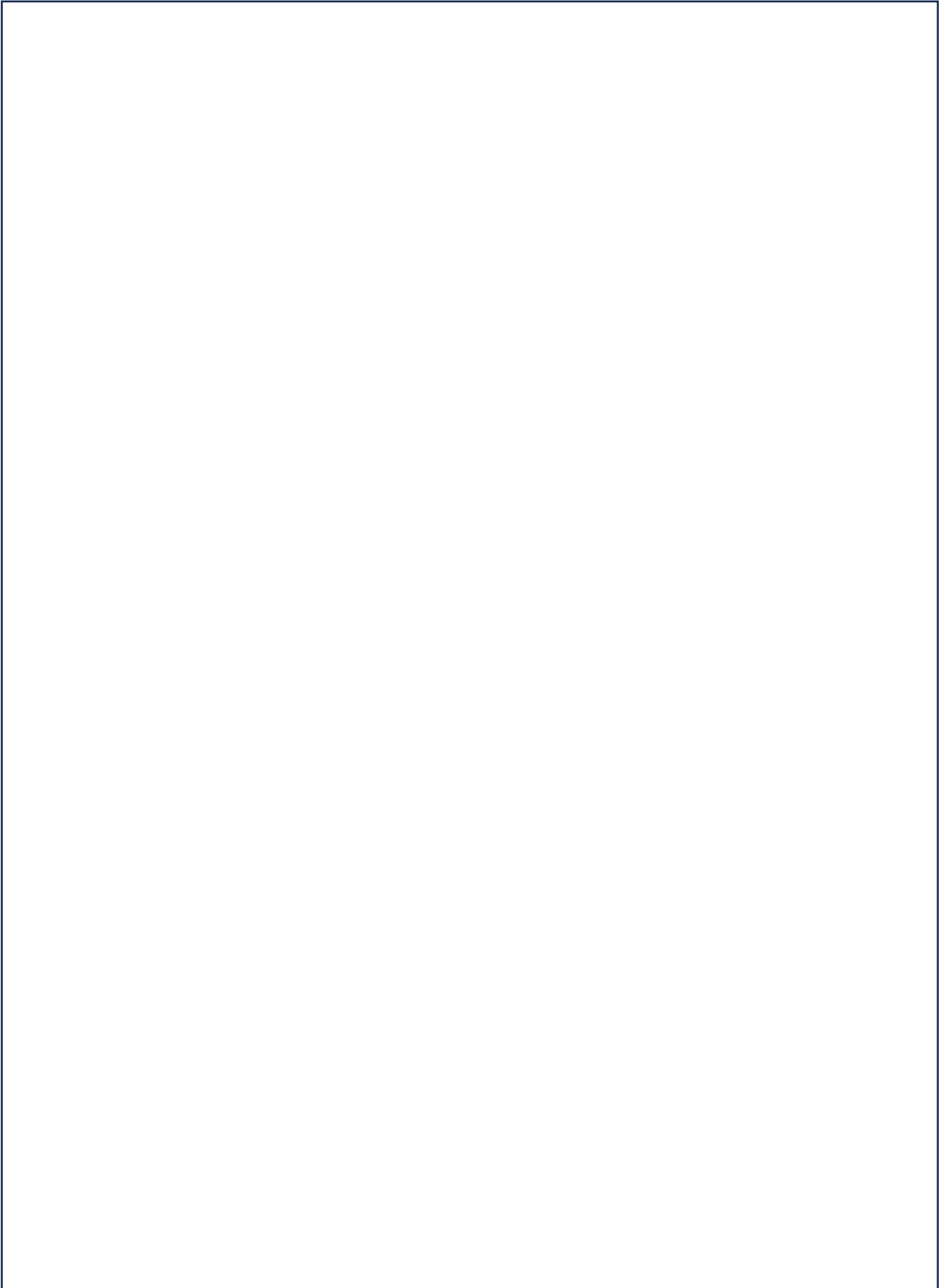
Week 4: Risk Assessment

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

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

Week 5: Drawing Skills

Draw 4 tools that you have used in the workshop and describe what they are used for.

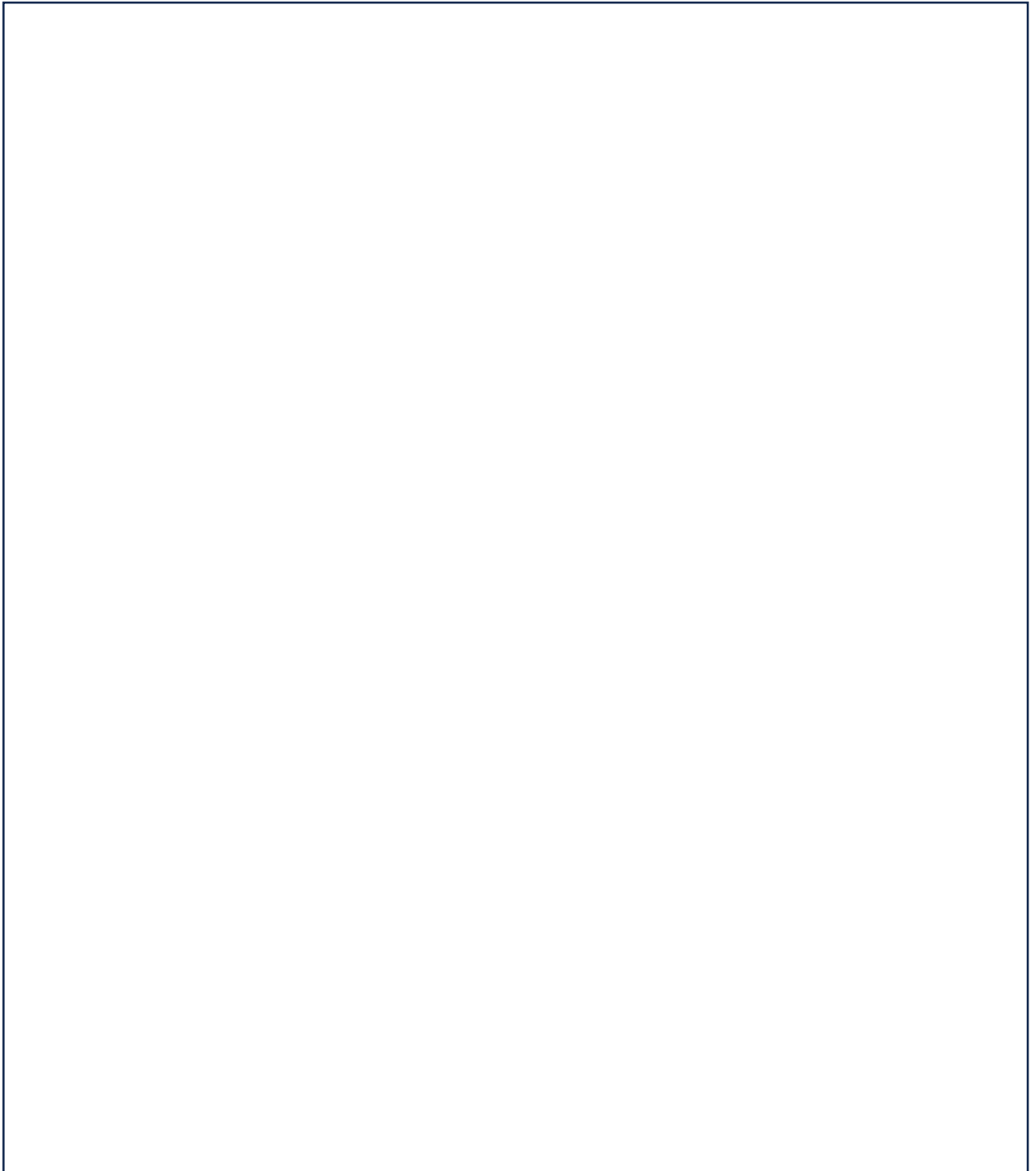
A large, empty rectangular box with a thin black border, intended for drawing and describing tools used in a workshop. The box occupies most of the page below the instructions.

Week 6: Wider Impact of Design

Use the space below to produce a poster, presentation or write an essay that explains the impact of deforestation.

Things to consider:

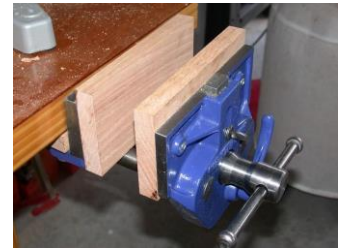
- What is deforestation?
- How big an issue is deforestation? Why?
- Why do people cut down large forest areas?
- Habitat destruction and loss
- Soil erosion
- Impact of logging on remote communities

A large, empty rectangular box with a thin black border, occupying the lower two-thirds of the page. It is intended for students to create a poster, presentation, or write an essay about the impact of deforestation.

Week 7: Tools and Materials

Use the word bank to identify the tools and materials; label each image with the correct name and say what they are used for.

Steel Rule, Vice, Glass Paper, Pillar Drill, Coping Saw, Bench Hook, Wooden Mallet, Disk Sander, Scroll Saw, Try Square, Band Saw, Plywood, Dowel.



Week 8: Maths For Design and Technology

Complete the graph using the information given

Analyse the information in Figure 8 about the sources of mahogany.

Sources of mahogany	Percentage grown in each area (%)
Native forests	7
National parks	30
Other	63

Figure 8

Complete the bar chart below to show the percentage grown in each area.

The first one has been done for you.

