06 Hand tools.

WORKSHEET 06 · TOPIC 06 · USE COURSE NOTES PAGES 23–27 TO HELP YOU

NAME | CLASS | DATE

TASK 1 Wood or metal?

4 marks

Tick the material each hand tool is **mainly** used on. 1 mark for every two correct.

Tenon saw ☐ Wood ☐ Metal	**Tin snips** ☐ Wood ☐ Metal	**Mortise chisel** ☐ Wood ☐ Metal	**Ball-pein hammer** ☐ Wood ☐ Metal
Nail punch ☐ Wood ☐ Metal	**Bending bars** ☐ Wood ☐ Metal	**Hand router** ☐ Wood ☐ Metal	**Hide mallet** ☐ Wood ☐ Metal

TASK 2 Name the exact tool

6 marks

Name the hand tool for each job. Be exact: "saw" or "plane" on its own scores 0.

(a) Cut the finger notch in NOOK's acrylic tray. 1

(b) Cut the corners off thin aluminium sheet. 1

(c) Chamfer the top edges of NOOK's oak top. 1

(d) Level the bottom of a housing joint. 1

(e) Sink a nail head below the surface. 1

(f) Cut a groove along the grain for a panel. 1

TASK 3 Put the housing joint in order

3 marks

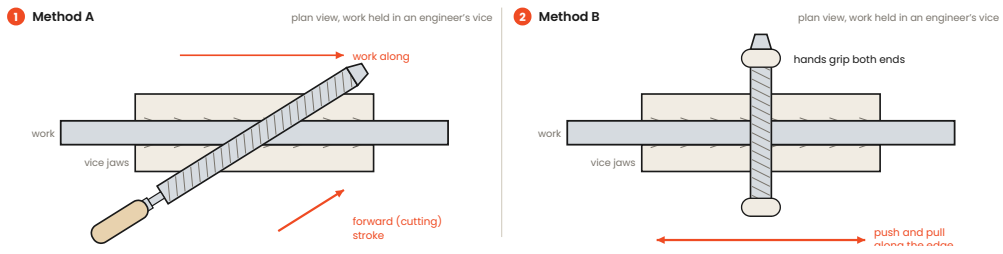
Number the stages 1 to 6. All six correct = 3 marks, four = 2, two = 1.

- ☐ Chop out the waste with a bevel-edged chisel and mallet.
- ☐ Level the bottom with a hand router set to the depth line.
- ☐ Clamp a guide block on the line. Saw to the depth line with a tenon saw.
- ☐ Square lines across the face and down both edges with a try square.
- ☐ Gauge the depth on both edges with a marking gauge. Hatch the waste.
- ☐ Measure the width of the housing from the face edge with a steel rule.

TASK 4 Cross or draw?

4 marks

These two filing methods were used on the edge of NOOK's acrylic tray.



(a) Name method A. 1

(b) Name method B. 1

(c) Done first? 1

(d) Abrasive next? 1

TASK 5 Fix the weak answer

4 marks

Each pupil answer scored 0. Rewrite it so it gets full marks.

A Name the tool used to cut NOOK's ash rails to length. *"A saw."* 1

B Describe two ways to get a good internal thread in the aluminium foot. *"Tap the hole, then use a die."* 2

C Describe one stage in bending the steel side rail to 90°. *"Heat it up and bend it."* 1

TASK 6 Plan the acrylic tray

4 marks

Complete part of NOOK's sequence of operations for the acrylic tray by filling the four empty cells.

STAGE	OPERATION	TOOLS AND EQUIPMENT
1	Mark out the blank and finger notch on the film	Steel rule, fine marker
2	Cut the internal finger notch	
3		Flat file, half-round file
4	Smooth and polish the edges	
5	Drill the screw holes before bending	
6	Bend the two 90° folds	Strip heater, wooden former

TASK 7 Exam practice

6 marks

NOOK's aluminium feet are drilled Ø5 and tapped M6. The steel side rail has R10 corners.

(a) Describe how the M6 internal thread would be cut. You must refer to tools in your answer. 3

(b) Describe how the R10 corners would be cut and shaped after marking out. You must refer to tools in your answer. 2

(c) Explain why a wooden mallet, not a steel hammer, is used to strike a chisel. 1