

Name \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

**By the end of this worksheet I can...**

- ☐ use the pillar drill, mortise machine, belt and disc sanders safely
- ☐ use portable power tools safely and make pre-use checks
- ☐ describe machine care and maintenance for my log book

**I DO****Worked example** Read how a full-mark answer is built*A pupil uses a belt sander to shape the end of a part.***1 Describe two safety precautions when using the belt sander.** (2 marks)**Points that earn marks** from the marking instructions: one ✓ per point

- ✓ Keep fingers away from the belt
- ✓ Use the table or fence to support the work

**WE DO****Guided practice** Use the starters and word bank to help you*A pupil notices the guard on the pillar drill is damaged.***2 State what the pupil should do.** (1 mark)**Sentence starters**

1. ...

**Word bank**

report · teacher

Tip: 1 marks = 1 separate, developed points.

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**YOU DO****On your own** No notes. Check your answers afterwards.**3 Quick check: tick one box for each.****a) Which machine cuts square mortises?**

- ☐ Mortise machine   ☐ Pillar drill   ☐ Disc sander   ☐ Jigsaw

**b) What is a safety check before using a jigsaw?**

- ☐ Remove the guard for a better view   ☐ Wet the wood to reduce dust   ☐ Paint the blade so it's easy to see   ☐ Check the cable for damage

**c) Which side of a disc sander should you use?**

- ☐ The upward-moving side   ☐ The downward-moving side   ☐ Either   ☐ The edge

**d) How should work be held on a pillar drill?**

- ☐ Held firmly in your hand   ☐ Resting on your knee   ☐ In a machine vice or clamped   ☐ Any way, as long as you're careful

## 4 Key terms: write the letter of the matching description next to each term.

|                              |     |                                                                |
|------------------------------|-----|----------------------------------------------------------------|
| 1. Pillar drill safety       | ___ | <b>A</b> Hollow chisel and auger chop square mortises          |
| 2. Mortise machine           | ___ | <b>B</b> Cuts curves in boards and sheet material              |
| 3. Disc sander               | ___ | <b>C</b> Clamp work in a machine vice and remove the chuck key |
| 4. Jigsaw                    | ___ | <b>D</b> Check cable, plug, guards and blade; clamp the work   |
| 5. Before using a power tool | ___ | <b>E</b> Report it and don't use it                            |
| 6. Faulty machine            | ___ | <b>F</b> Use the downward-moving side of the disc              |

*A pupil uses a jigsaw to cut a curve in plywood.*

## 5 Describe two safety checks before using the jigsaw. (2 marks)

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*Ten identical mortises are needed in table legs.*

## 6 Name a machine that would cut the mortises and give one advantage. (2 marks)

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### Check and reflect

Mark your answers with the answer sheet. Go back to the checklist on the site and re-rate each "I can" statement above. Which one still needs work?

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