

Lesson #3: Portable Jigsaw and Scroll Saw Safety Test

Objectives

Students will be able to...

- Identify the components on a portable jigsaw and a scroll saw.
- Demonstrate the safe operation of a portable jigsaw and a scroll saw.

Common Core Standards

RSIT 11-12.2
RLST 11-12.3
Demonstration and Application 11.1
Health and Safety 6.0
Technical Knowledge and Skills 10.0
Cabinetmaking and Wood Products Pathway A4.1, 4.3, 4.4
Residential and Commercial Construction Pathway D2.1, D3.1

Materials

Portable Jigsaw and Scroll Saw Safety Test

Lesson Sequence

- Review the portable jigsaw and scroll saw identification and safety information. Ask students questions to review for their safety test.
- Pass out the *Portable Jigsaw and Scroll Saw Safety Test*. Remind students that they must pass this test in order to be able participate in projects in the shop with these tools. (50 minutes)

Assessment

Students must pass this test in order to be able to use these tools in the shop during any future projects.

Accommodations/Modifications

Read Test Aloud If Needed
Extra Time If Needed

Portable Jigsaw and Scroll Saw Safety Test

Circle the correct answers.

1. The saw must be unplugged from the power source when _____.
 - A. changing the blade
 - B. adjusting the depth of cut
 - C. doing any adjustments
 - D. All the above

2. You should keep your fingers at least ____ inch(es) away from the blade when operating the saw.
 - A. $\frac{1}{2}$
 - B. 1
 - C. 2
 - D. 3.

3. Before you start the scroll saw, be sure the hold down pressure foot is:
 - A. a half inch from the wood.
 - B. a quarter inch from the wood.
 - C. resting on the wood.
 - D. against the table.

4. Adjustments should be made on the saw:
 - A. only by the teacher.
 - B. when the saw is running at the lowest speed.
 - C. when the saw is running at the highest speed.
 - D. when the saw is off and stopped.

5. Feed wood into the scroll saw:
- A. at a rate dependent upon motor speed.
 - B. in rhythm with the hold down motion.
 - C. at a moderate rate of speed.
 - D. as fast as possible.
6. Before you turn on the scroll saw, be sure that the _____ is properly adjusted to keep the blade from bending or breaking.
- A. upper plunger
 - B. saw blade tension
 - C. pressure foot
 - D. hand wheel
7. Install new blades with the teeth of the blade pointing _____ on the scroll saw.
- A. down
 - B. to the side
 - C. up
 - D. in any direction
- safe unsafe 8. Have the work area clean and uncluttered.
- safe unsafe 9. Set the blade tension before beginning to cut.
- safe unsafe 10. To operate the saw when the hold down foot is not resting on the wood.
- safe unsafe 11. Force the wood into the blade so it cuts faster.
- safe unsafe 12. Turning the saw on with the wood touching the blade.
- safe unsafe 13. Cut wood with flat surfaces.
- safe unsafe 14. To have others stand back from the machine and out of the safety zone.
- safe unsafe 15. Set the speed based on the material to be cut.

Portable Jigsaw and Scroll Saw Safety Test – *Answer Key*

1. D
2. D
3. D
4. D
5. A
6. B
7. A
8. Safe
9. Safe
10. Unsafe
11. Unsafe
12. Unsafe
13. Safe
14. Safe
15. safe