

STUDY GUIDE SHAPER SAFETY

NAME: _____

CLASS OR PERIOD: _____

DATE OF INSTRUCTION: _____

1. The shaper should be used only under the direct supervision of your instructor.
2. Use whatever guards, clamping devices and hold-downs you can. Use the safest set-up possible.
3. It is safer to mill the bottom edge of the board whenever possible. That way the knives are covered by the material.
4. Unplug the shaper or switch it off at the circuit breaker whenever you make any changes or major adjustments.
5. When you set the fence, lock it in position so it won't shift when pressure is applied against it.
6. Be sure the cutter is fastened securely on the spindle. Always use an approved lock washer between the spindle nut and the cutter.
7. When the spindle is adjusted for the right height, lock it in place with the hand wheel lock.
8. Check the spindle and cutter to see that they're clear of the guards and fences. Turn the spindle by hand *before* you reconnect the shaper.
9. Clear the shaper table *before* you reconnect the power. Remove all tools and materials from the table.
10. When the shaper is reconnected, turn it on, then turn it off again. Watch which direction it turns. *The direction of feed must always be against the rotation of the cutter.* Be sure you understand this clearly.
11. The wood has to be in good condition. It has to be squared, surfaced, with no knots, splits, checks or other defects.
12. The piece has to be large enough to be run through the shaper safely. It has to be thick enough and wide enough for the type of cutter you're using, and it has to be *at least 12 inches long.*
13. Cut *with* the direction of the grain. Cutting across end grain requires a special set-up. Check with your instructor before you make any end grain cuts.
14. *Never back out of a cut.* If you try to back out while the shaper is running, the stock may kick-back violently.
15. Pay attention. Don't talk to anyone and don't let anyone talk to you. Keep all your attention on the cut.
16. Keep your hands out of the path of the cut. Keep your hands and fingers away from the cutter.
17. Hold the stock firmly against the fence and down on the surface of the table. If the wood isn't held down firmly at all times, it will be kicked back *hard* by the cutter.
18. Sometimes the shaper is used with a depth collar and a guide pin instead of the fence. The ring guard must be used with this type of set-up.
19. Never start a cut at a corner when the depth collar is used. When the turning cutter hits the corner it can cause a very serious kick-back. Use a pattern with the stock if you need to.

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NAME: _____

CLASS OR PERIOD: _____

20. Don't leave the machine until it has come to a complete stop.
21. The two most serious dangers of the shaper are kick-backs and running your fingers and hands into the moving cutter. Both can be avoided if you know the safety procedures and *use* them.
22. Don't do *anything* on the shaper unless you understand it completely and clearly. If you're not sure, *ask*. Don't do anything you're not sure of.

NAME: _____

CLASS OR PERIOD: _____

DATE: _____ SCORE: _____

ALWAYS WEAR EYE PROTECTION

1. The shaper should be used *only* under the direct _____ of the instructor.
2. Always use the _____ set-up possible.
3. It is safer to mill the _____ edge of the board.
4. The shaper must be _____ before any major changes or adjustments are made.
5. When the fence is set it must be _____ securely in position so it can't shift.
6. Make sure the cutter is fastened securely on the _____.
7. Lock the spindle in place when it has been set for the right _____.
8. Make sure the spindle and the cutter are completely _____ of the guards and fences.
9. Remove all tools and materials from the shaper table _____ reconnecting the power.
10. The direction of feed must always be _____ the rotation of the cutter.
11. The wood must be in good condition and free of any _____.
12. The stock must be _____ enough in all dimensions to be run through the shaper safely.
13. Cut *with* the _____ of the wood. Cutting across the end of the stock requires a special set-up.

COMPLETE EACH STATEMENT WITH THE CORRECT LETTER OR WORDS IN THIS COLUMN

- A. DISCONNECTED
- B. LARGE
- C. ATTENTION
- D. UNDERSTAND
- E. FIRMLY
- F. COMPLETE
- G. PATH
- H. KICK-BACKS
- I. LOCKED
- J. CORNER
- K. GRAIN
- L. SUPERVISION
- M. RING GUARD
- N. SPINDLE
- O. BEFORE
- P. AGAINST
- Q. CLEAR
- R. NEVER
- S. BOTTOM
- T. DEFECTS
- U. HEIGHT
- V. SAFEST



NAME: _____

CLASS OR PERIOD: _____

14. _____ back out of a cut while the shaper is running.
15. Keep your _____ on what you are doing. Don't allow yourself to be distracted.
16. Keep your hands out of the _____ of the cut. Keep your hands a safe distance from the cutter.
17. The stock must be held _____ against the fence and down on the surface of the table.
18. The _____ must always be used when a depth collar and a guide pin are used instead of a fence.
19. Never start the cut at a _____ when the depth collar is used.
20. Don't leave the machine until it has come to a _____ stop.
21. The two most serious dangers are _____ and running your hands into the moving cutter. These dangers can be avoided if you use the correct safety procedures.
22. Never do *anything* on the shaper unless you _____ it completely and clearly.

- A. DISCONNECTED
 B. LARGE
 C. ATTENTION
 D. UNDERSTAND
 E. FIRMLY
 F. COMPLETE
 G. PATH
 H. KICK-BACKS
 I. LOCKED
 J. CORNER
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 U. HEIGHT
 V. SAFEST

GET PERMISSION

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SHAPER SAFETY**14****ANSWER KEY**
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STATEMENT NUMBER	CORRECT LETTER AND WORDS
1	L. SUPERVISION
2	V. SAFEST
3	S. BOTTOM
4	A. DISCONNECTED
5	I. LOCKED
6	N. SPINDLE
7	U. HEIGHT
8	Q. CLEAR
9	O. BEFORE
10	P. AGAINST
11	T. DEFECTS
12	B. LARGE
13	K. GRAIN

STATEMENT NUMBER	CORRECT LETTER AND WORDS
14	R. NEVER
15	C. ATTENTION
16	G. PATH
17	E. FIRMLY
18	M. RING GUARD
19	J. CORNER
20	F. COMPLETE
21	H. KICK-BACKS
22	D. UNDERSTAND