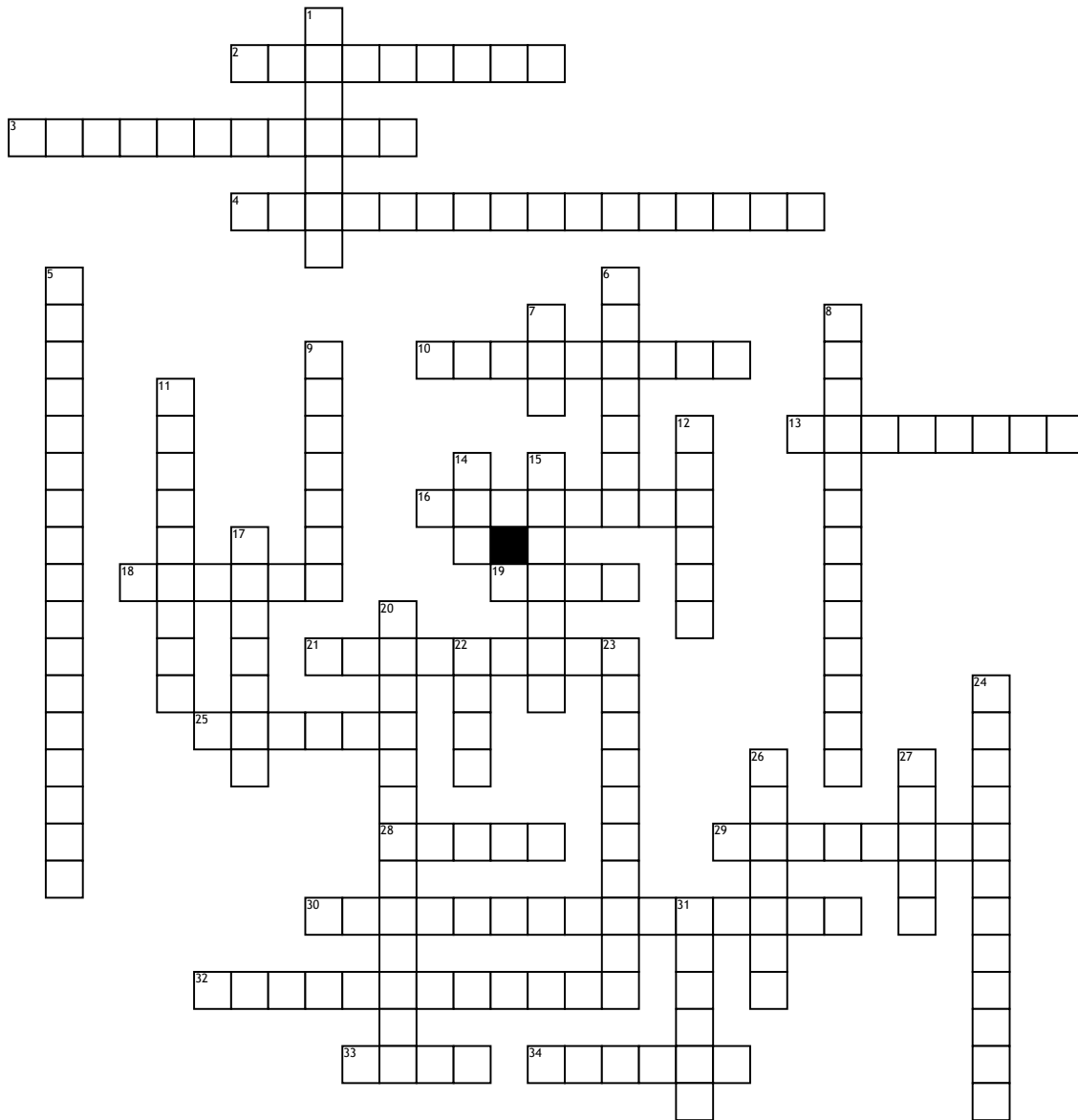


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Tooling



## Across

2. The type of boring bit used on the CNC.
3. A carbide CNC bit that direct the cutting forces to the center of the workpiece from both sides of the piece, leaving both sides with clean edges.
4. a gold or orange brad point boring bit rotates \_\_\_\_\_.
10. A black brad point boring bit rotates \_\_\_\_\_.
13. 2 knives on the same head must weigh the same to ensure the tool is \_\_\_\_\_.
16. Tool diameter affects knife mark depth, The greater the \_\_\_\_\_ head , the shallower the knife mark depth.
18. The cutting of one piece into 2 or more pieces is called?
19. To increase KMPi you must increase the spindle RPM, Increase the # of knives and \_\_\_\_\_ the feed rate.
21. wear resistance has to do with 2 things, 1 is hardness the other is?

25. Tooling that is not good for heavy workloads but used when quick and accurate change overs are necessary.
28. What is the example for hard but not tough?
29. Sawblade required when primarily cutting against the grain.
30. On circular saw blades, what does the abbreviation TCG stand for?
32. Cutting with the rotation of the bit.
33. The space left when grooving a piece of material.
34. What is the example for tough but not hard?
- Down**
1. Router and boring bits have \_\_\_\_\_ speed (rpm) limits.
5. On circular saw blades, what does the abbreviation ATB stand for?
6. A carbide CNC bit that has a spiral that directs cutting forces toward the workpiece from the top side
7. \_\_\_\_\_cutting tools are very resistant to corrosion.
8. On a sawblade, is used for heat control
9. There are three categories of wood machining. Sawing, Boring and...

11. Shallow dents or depressions in the surface caused by inadequate dust extraction are?
12. The drilling of a hole into or through material
14. Sawblade required when primarily cutting with the grain.
15. Hardwoods require a \_\_\_\_\_ rake angle than softwoods
17. The S4Sing of material into a certain thickness and width
20. The most dangerous part on a cutterhead as it rotates because it cannot be seen.
22. A tool material that is brittle is likely to be...
23. A large, thick washer used to reinforce a saw blade is called a
24. What type of blade is used on a radial arm saw for safety reasons?
26. \_\_\_\_\_-tipped tools are capable of very heavy workloads.
27. A carbide CNC bit that has a spiral that cuts/shears toward the tool holder.
31. On a saw blade that is used for chip extraction