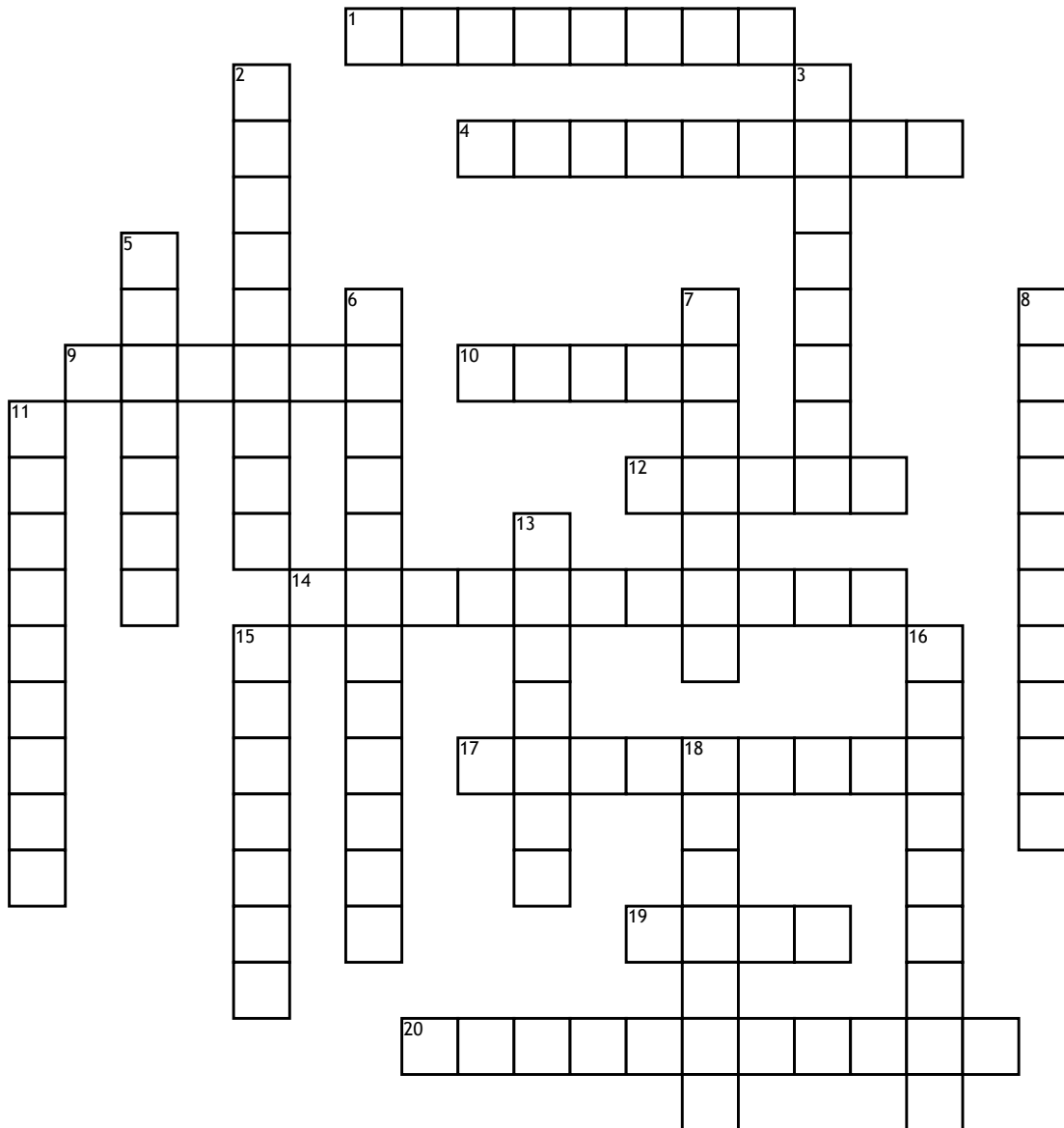


# Design Crossword



## Across

1. to employ force using a pivot against a load (ie bottle opener jaws gripping on a bottle top)  
 4. a non-ferrous metal, light silver in colour, melting point of 660 C  
 9. the thing you put on top of your nutcracker  
 10. an accurate machine that uses single point tools to remove metal from work  
 12. an alloy of copper and zinc, melting point 880 C  
 14. hit with a hammer to create a small indentation in the work surface  
 17. ferrous metal containing 0.1 - 0.3 % carbon

19. used to produce a smoother finish by removing small amounts of metal

20. held in a chuck in the tailstock of the lathe for starting a hole

## Down

2. the thing you do to screw things in  
 3. have two points, one placed in the indentation to produce a circle, arc on the surface  
 5. a joining process for metals where the filler has a melting temperature above 450C  
 6. used to find the centre of a circular bar of metal  
 7. metals that contain iron

8. The study of the physical relationship between people and their working and living environment

11. a hole that does not go all the way through a piece of metal

13. wearing away of a surface by wind, water, or usage

15. are used to cut metal

16. used in drilling as a pre-drilled hole before the final size hole is drilled

18. held like a pen has a sharp steel point to mark lines onto steel surface