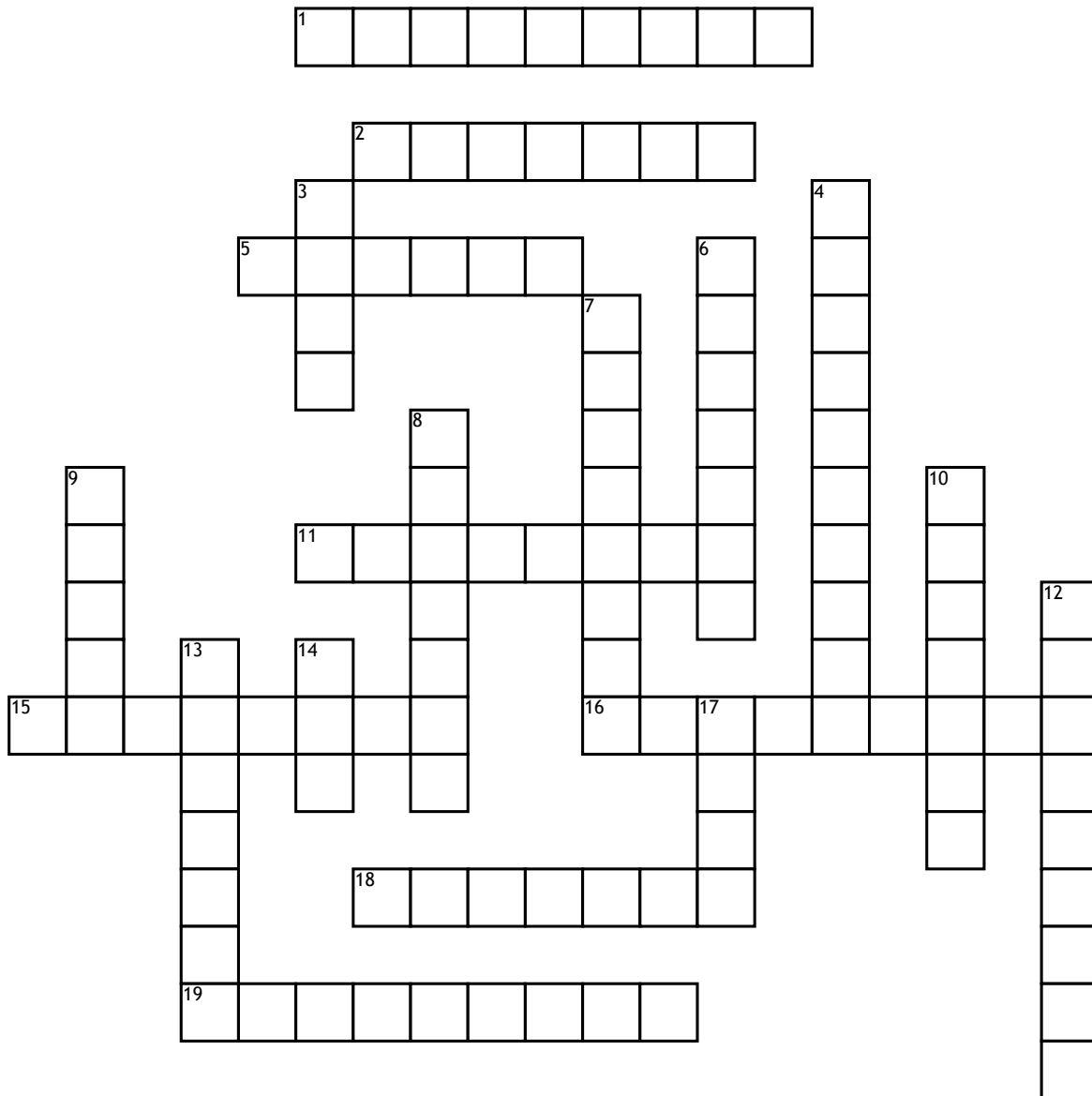


# Crossword puzzle - Metals



## Across

1. Stainless steels are known for their resistance to, what?
2. What is the name of the alloy in which iron is the prime constituent?
5. What is the missing word? Steels are Iron- alloys.
11. What is the second word of the abbreviation CGI?
15. Within most steels and cast irons the matrix is usually made of ferrite or ?
16. What is the least dense structural metal?
18. Most common use for Noble metals.

19. The heat treatment process consists of three processes. Austenizing, quenching then ?

## Down

3. Name for an alloy that are so brittle that forming or shaping by appreciable deformation is not possible, so casting is necessary.
4. Def: a nonequilibrium state or excited state that may persist for a long time.
6. In ductile irons what is the name of the shape of graphite formed? Hint: in the form of \_\_\_\_\_ instead of flakes.
7. What is the name of the main constituent of the alloy with the greatest specific weight ratio?

8. Copper alloys in which zinc is the predominant alloying element?

9. A group of eight metals which are expensive. The \_\_\_\_\_ metals
10. Main application for high-carbon steels. \_\_\_\_\_ tools, dies to form or shape.
12. In white iron or malleable iron what does the carbon mostly exist as?
13. Alloys that are amenable by mechanical deformation.
14. A miscellaneous alloy in which its primary use is to coat the inside of carbon steel cans?
17. The type of cast Iron that is effective with damping and vibrational energy?