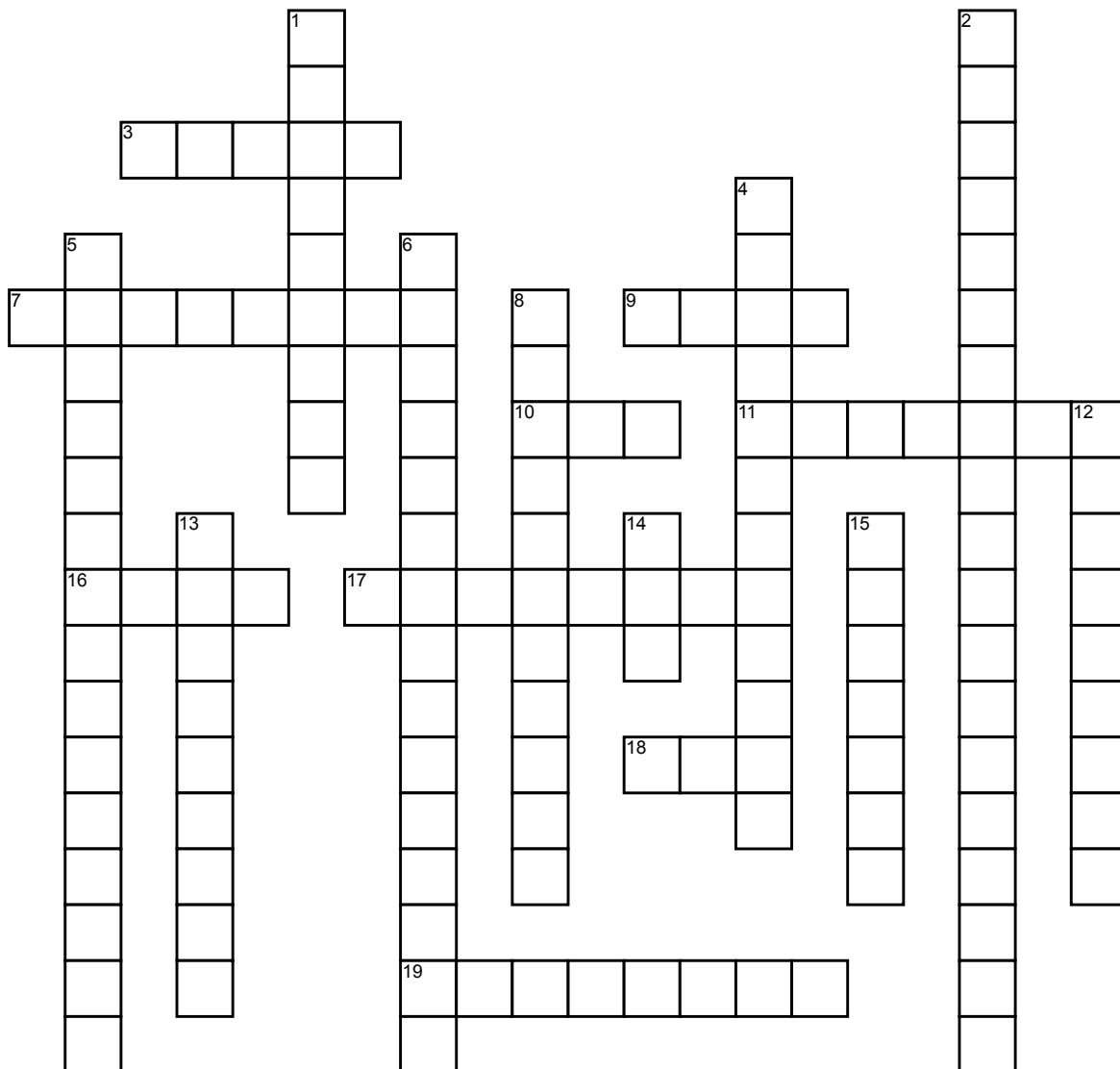


Bonding



Across

3. Two non-metal atoms will _____ their electrons to form a bond.

7. Metal ions typically have a _____ charge

9. Name of the shape of water (H₂O)

10. Each lobe in a molecular orbital diagram can hold this many electrons.

11. This element has 20 protons

16. The atom with electron configuration 2,8

17. The number of electrons in the Sulfide ion.

18. An atom that has gained or lost electrons is known as an _____

19. Non-metal ions typically have a _____ charge

Down

1. Name of the shape of ammonia (NH₃)

2. Bonding electron that is no longer associated with any one particular atom.

4. The type of bonding between a non-metal atom and a metal atom.

5. The type of bonding between two non-metal atoms.

6. The type of bonding between two metal atoms.

8. Name of the shape of methane (CH₄)

12. The structure of a non-metal compound with a very low melting and boiling point.

13. The force of attraction between positively and negatively charged ions

14. The lithium ion burns with a _____ flame

15. The structure of a non-metal compound with a very high melting and boiling point.