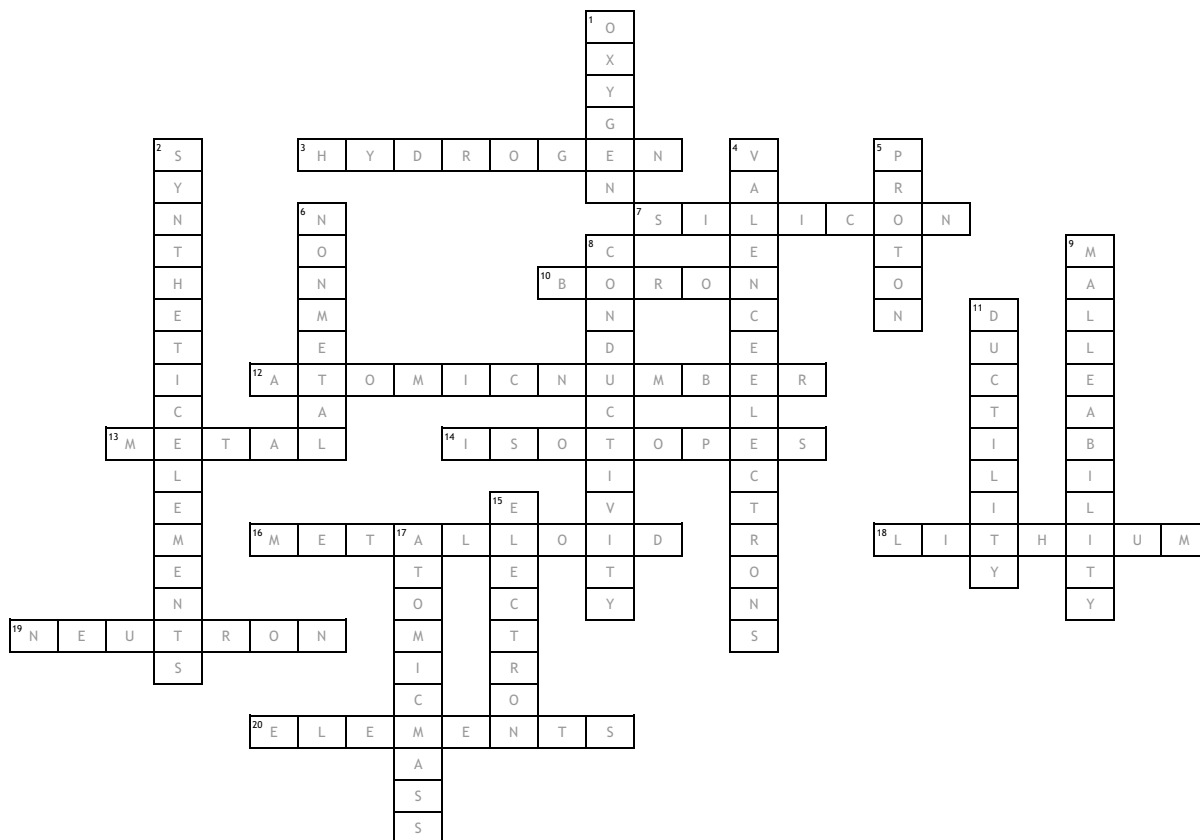


# Elements and the periodic table



## Across

3. the first element on the periodic table
7. The 14th element on the periodic table
10. What lithium and helium make when combined
12. The number of protons in the nucleus
13. A material that has shininess, conductivity, magnetism, malleability, and ductility
14. Atoms with the same number of protons, but different number of neutrons
16. An element intermediate in properties of a metal and non metal
18. What hydrogen and helium would make, if combined
19. A particle with no charge
20. Made up of atoms, and defined nthe number of protons in the nucleus

## Down

1. the 8th element on the periodic table
2. Not discovered in nature, but artificially produced isotopes
4. Electrons in the outermost shell of an atom that are used for chemical bonds
5. A particle with a positive charge
6. An element that lacks the characteristics of a metal
8. Ability to transfer heat or electricity
9. Ability to be hammered into shapes
11. Ability to be pulled into wires
15. A particle with a negtive charge
17. The number of protons and neutrons in an atom