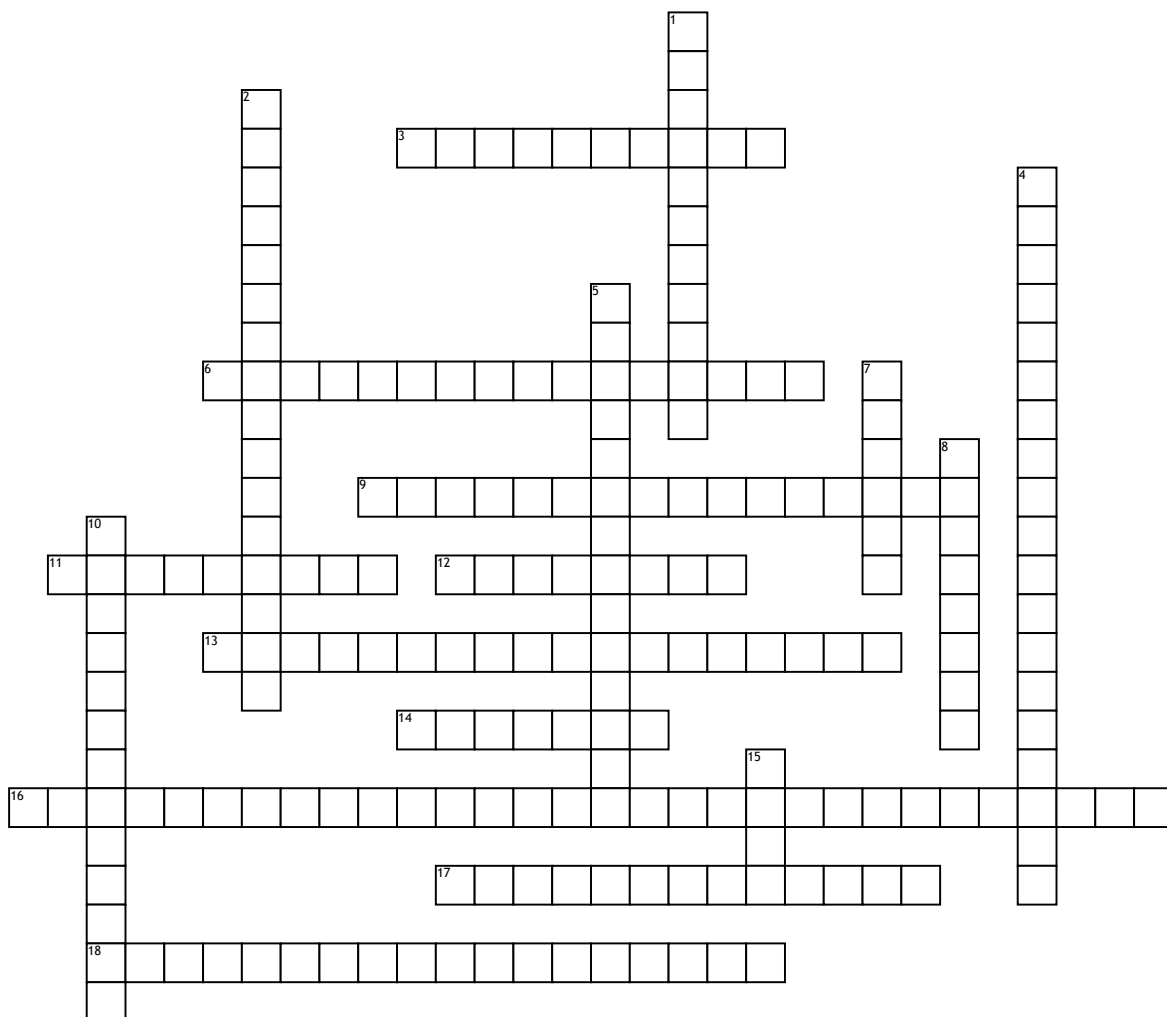


The Mole



Across

- 3. the mass of an in atomic mass units
- 6. the exact number of atoms of each element in the smallest unit of a substance
- 9. an expression of a formula at the smallest ratio
- 11. the mass of a sample
- 12. Who created the hypothesis that equal volumes of gases contain an equal number of molecules, provided at the same temp. and pressure
- 13. standard temperature

- 14. the substance present in a larger amount
- 16. what does STP stand for?
- 17. typically a whole ratio of values in chemistry
- 18. how to write very small or very large numbers

Down

- 1. the volume occupied by one mole of a substance at a given temp
- 2. the number of molecules in 1 mole

- 4. solving problems with conversion factors to cancel out units
- 5. a mass exactly equal to 1/12 to the mass of carbon-12 atom
- 7. a substance present in a smaller amount
- 8. entities, such as alpha particles, atoms, ions, or molecules
- 10. the sum of the atomic masses in a molecule
- 15. standard pressure