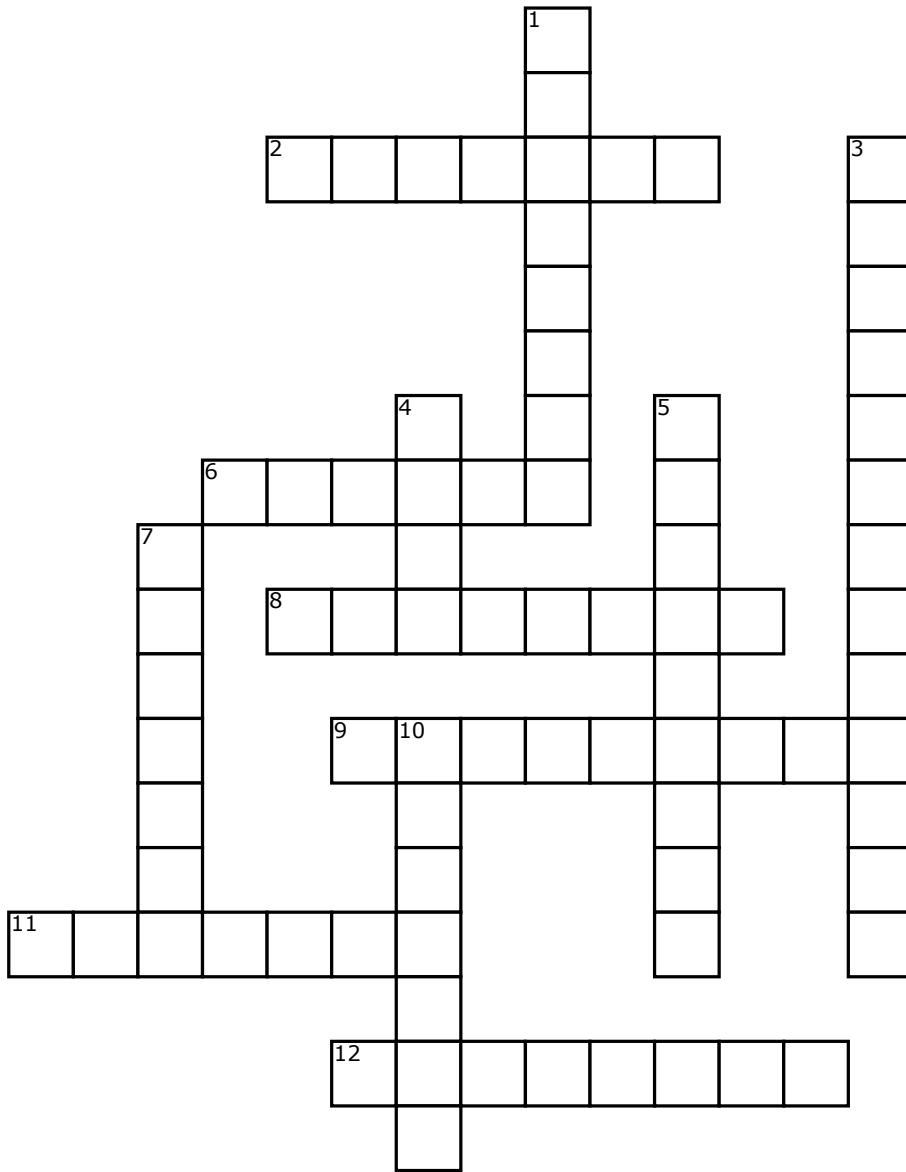


# Chapter 3



## Across

2. The small, dense center of positive charge in an atom.  
6. A positively charged particle in an atomic nucleus.  
8. Matter consisting of at least two atoms and at least two elements.  
9. Atoms are \_\_\_\_\_ in chemical processes.

11. A substance that cannot be decomposed into simpler substances by chemical or physical means.

12. Matter consisting of at least two atoms and at least one element.

## Down

1. A negatively charged particle that moves around the nucleus of an atom.  
3. Sets the basic ground rules for how atoms can or cannot behave.

4. The smallest component of an element.

5. All atoms of a given element are \_\_\_\_\_.

7. Adams of one element can \_\_\_\_\_ with atoms of other elements to form compounds.

10. A particle in the atomic nucleus with mass virtually equal to the protons but with no charge.