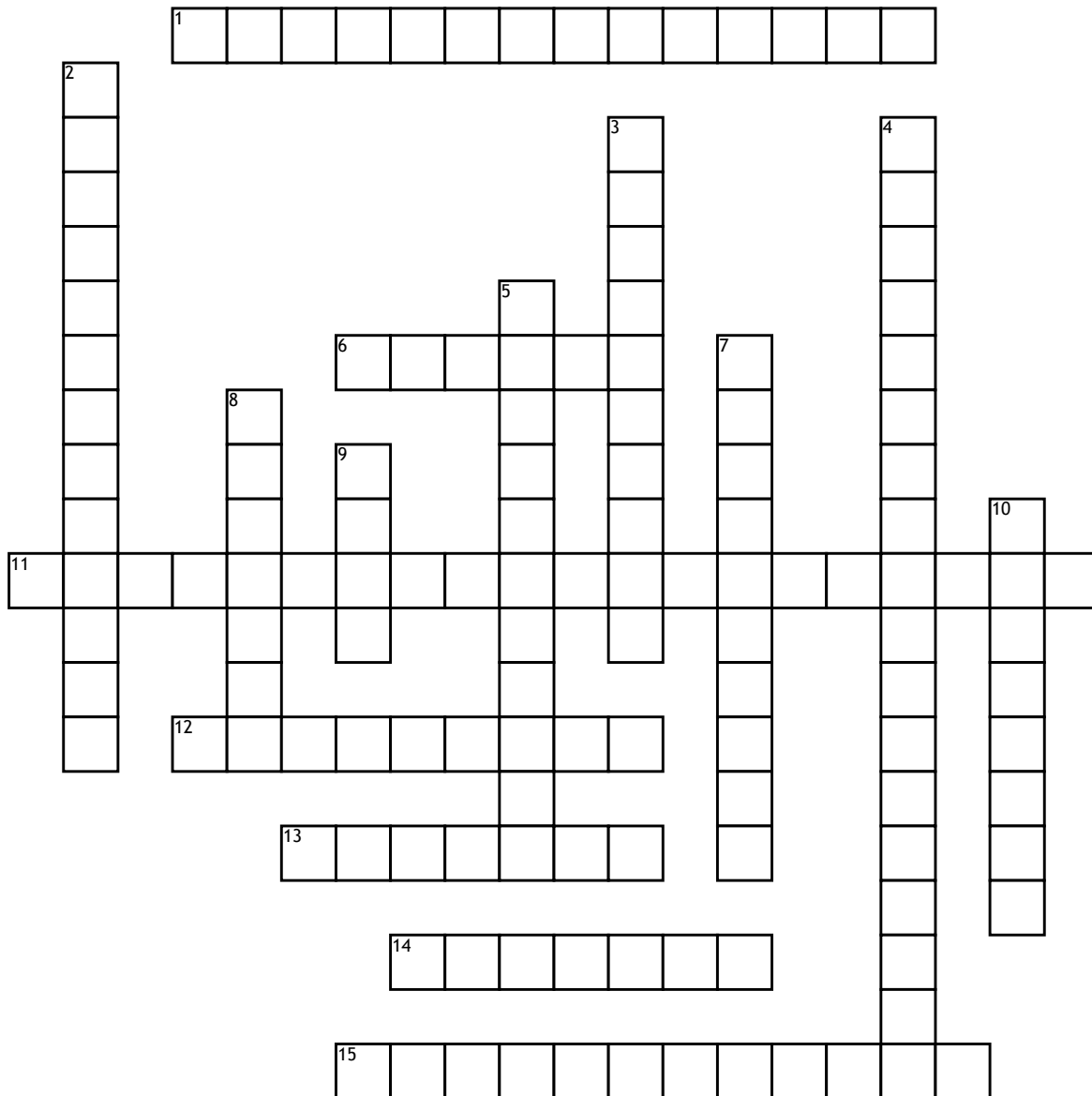


# Chapter 11 Vocabulary



## Across

1. A unit of mass that describes the mass of an atom or molecule  
 6. A subatomic particle that is found in the nucleus of the atom  
 11. Same charge repel each other while opposites attract  
 12. Important to radioactive atoms, in stable atoms neutrons can change to protons or electrons, this force plays a big role in this change  
 13. In physical science, an atom's central region, which is made up of protons and neutrons  
 14. A subatomic particle that has no charge and is found in nucleus of the atom

15. The number of protons in the nucleus of an atom; the atomic number is the same for all atoms of an element

## Down

2. A region around the nucleus where electrons are likely to be found  
 3. The sum of the numbers of protons and neutrons in the nucleus of the atom  
 4. Acts between all objects at the same time, force depends on mass and distance  
 5. At close distances with protons and neutrons, this force overpowers electromagnetic force

7. The mass of an atom expressed in atomic mass units  
 8. An atom that has the same number of protons (or the same atomic number) as other atoms of the same element do but that has a different number of neutrons (and thus a different atomic number)  
 9. The smallest unit of an element that maintains the properties of that element  
 10. A subatomic particle that has a negative charge