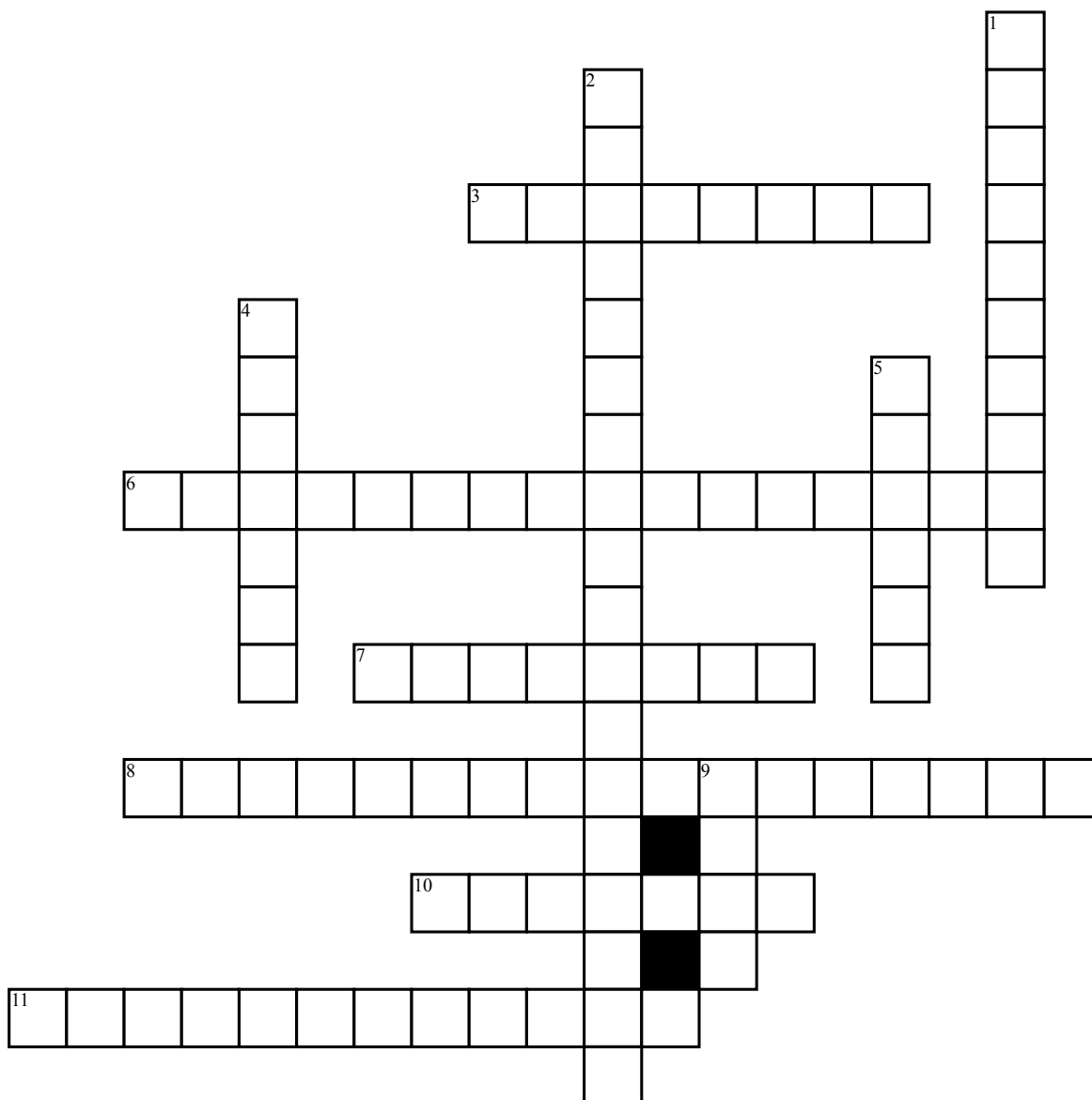


Name: _____

Atomic Vocabulary



Across

- 3. negatively charged subatomic particle with insignificant mass located outside of the nucleus of an atom
- 6. an outer shell electron that is associated with the formation of chemical bonds
- 7. atoms of the element that contain equal numbers of protons but different numbers of neutrons in their nuclei
- 8. a measure of the tendency of an atom to attract a bonding pair of electrons
- 10. neutral subatomic particle with significant mass located within the nucleus of an atom
- 11. number of protons in the nucleus of an atom, which determines the chemical properties of an element and its place in the periodic table

Down

- 1. mass of an atom of a chemical element expressed in atomic mass units; approximately equivalent to the number of protons and neutrons in the atom or to the average number allowing for the relative abundances of different isotopes
- 2. property or characteristics of a substance that is observed during a reaction in which the chemical composition or identity of the substance is changed
- 4. positively charged mass within an atom composed of neutrons and protons, and possessing most of the mass but occupying only a small fraction of the volume of an atom
- 5. positively charged subatomic particle with significant mass located within the nucleus of an atom
- 9. the smallest unit of a chemical element that has all of the properties of that element; basic building block of matter