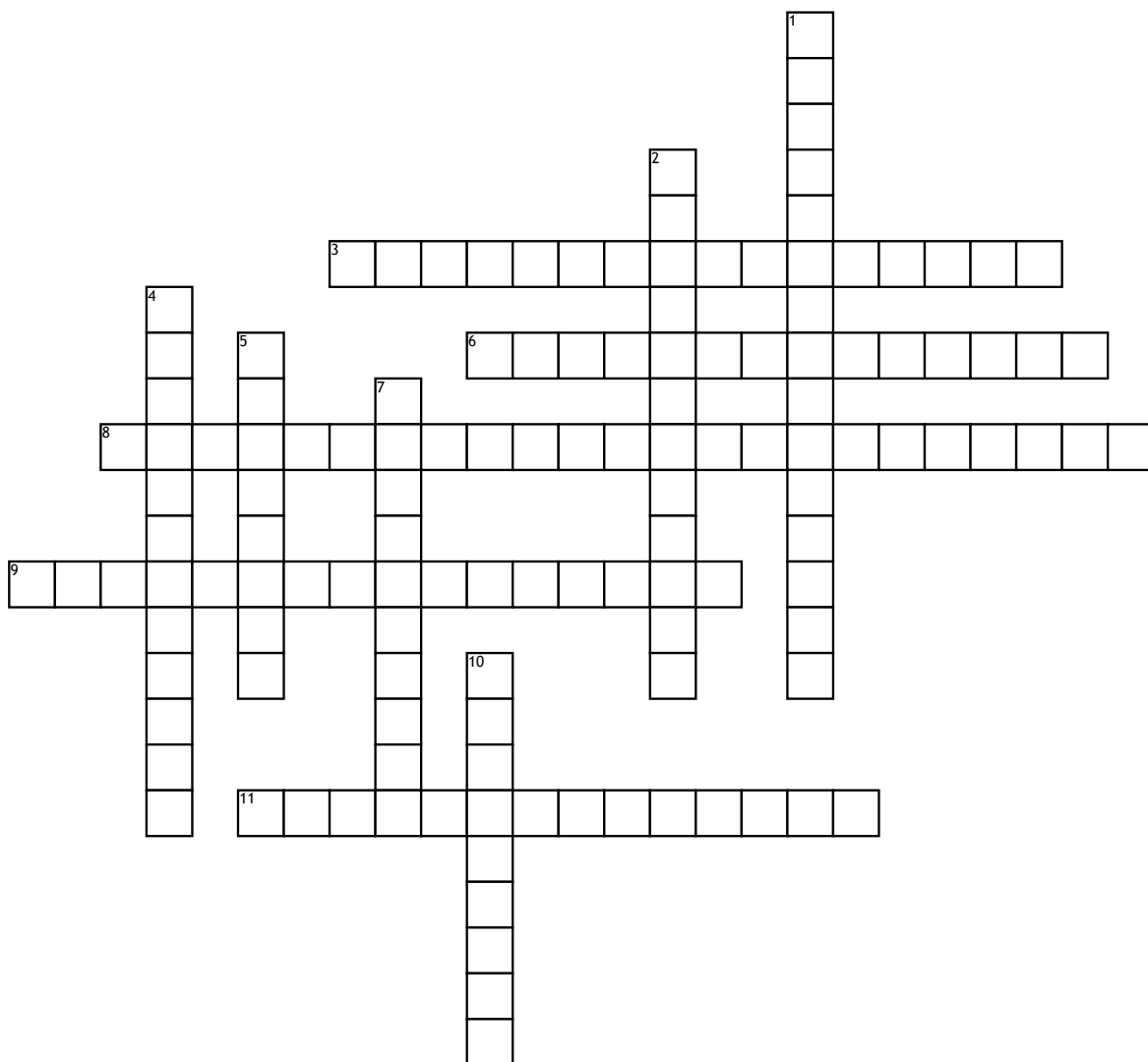


Unit 6a Vocab



Across

3. An electron in an outer shell of an atom that can participate in forming chemical bonds with other atoms
6. _____ occur when a substance combines with another to form a new substance, called synthesis or, alternatively, decomposes into two or more different substances; irreversible.
8. The ____ of _____ of ____ states that for any system closed to all transfers of matter and energy, the mass of the system must remain constant over time.
9. A _____ is the symbolic representation of a chemical reaction in the form of symbols and formulas.
11. _____ occur when objects or substances undergo a change that changes the physical form of a composition but not the chemical composition.

Down

1. A way of expressing information about the proportions of atoms that constitute a particular chemical compound, using a single line of chemical element symbols, numbers, and sometimes also other symbols, such as parentheses, dashes, brackets, commas and plus (+) and minus (-) signs.
2. A _____ is a lasting attraction between atoms that enables the formation of chemical compounds.
4. The _____ are a group of elements in the periodic table. They are all in the first column of the periodic table. They are extremely reactive.
5. The result of a chemical reaction.
7. The _____ make a group of chemical elements with similar properties. Under standard conditions, they are all odorless, colorless, monatomic gases with very low chemical reactivity.
10. A substance that takes part in and undergoes change during a reaction.