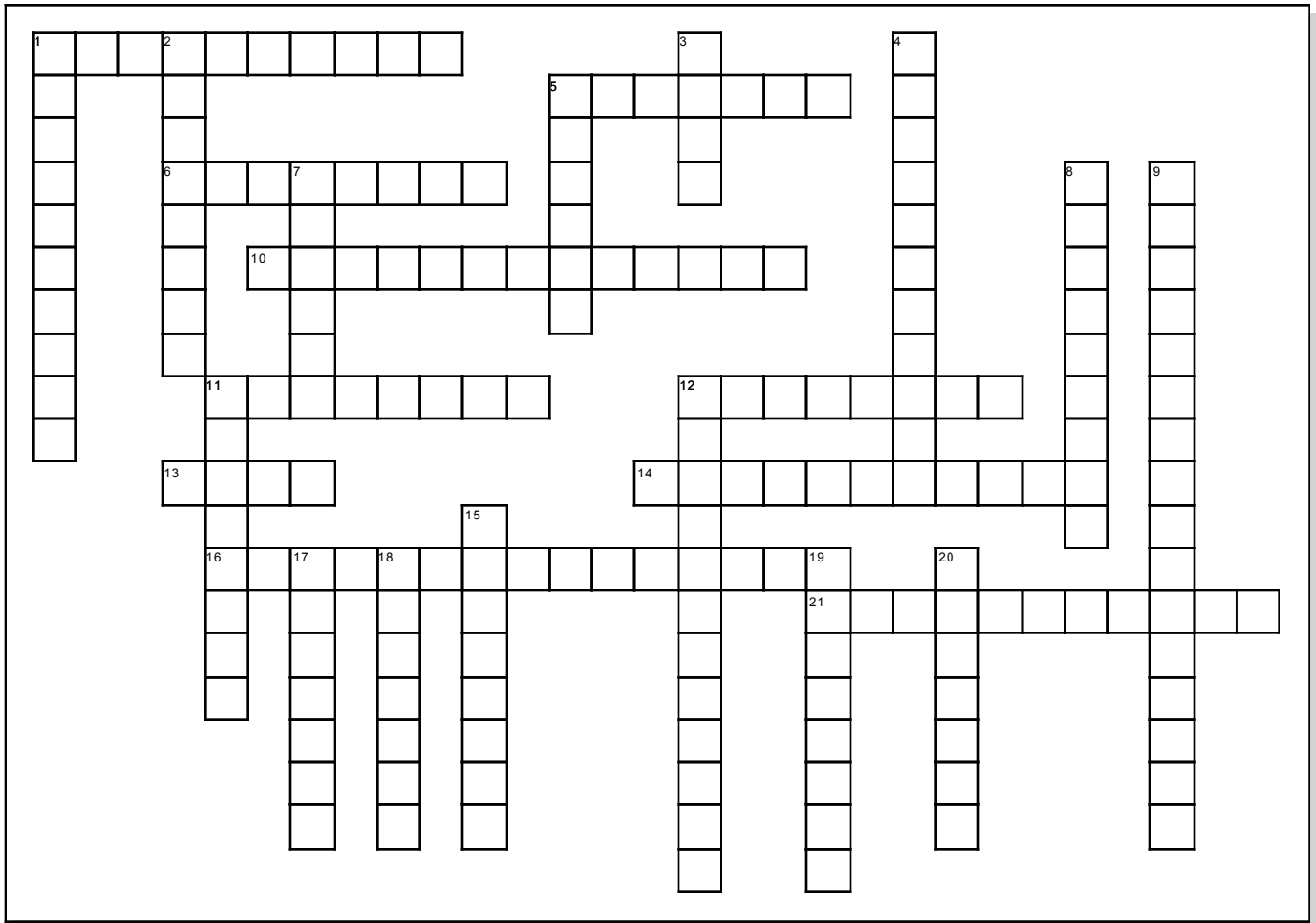


Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Physical Science Grade 8

## Chapter 2 The Nature of Matter

**Instructions:** Complete the crossword puzzle. Use the clues to help identify the words.



### Across

1. \_\_\_\_ energy: The energy of moving electrical charges.
5. Two or more substances that are mixed together but not chemically combined
6. A neutral particle made of two or more atoms joined by covalent bonds.
10. \_\_\_\_ mixture: A mixture in which pure substances are unevenly distributed throughout the mixture.
11. \_\_\_\_ change: A change in a substance that does not change its identity.
12. A pure substance made of two or more elements chemically combined.
13. chemical \_\_\_\_: The force that holds atoms together.
14. \_\_\_\_ change: A change in which energy is taken in.
16. \_\_\_\_ energy: A form of energy that travels through space as waves.
21. \_\_\_\_ mixture: A mixture in which substances are evenly distributed throughout the mixture.

## Down

1. \_\_\_\_ change: A change in which energy is given off.
2. \_\_\_\_ change: A change in which one or more substances combine or break apart to form new substances.
3. The basic particle from which all elements are made.
4. A measure of the average energy of motion of the particles of a substance.
5. Anything that has mass and occupies space.
7. The ability to do work or cause change.
8. A single kind of matter that is pure and has a specific set of properties.
9. A characteristic of a pure substance that can be observed without changing it into another substance. (Two Words)
11. chemical \_\_\_\_: A characteristic of a pure substance that describes its ability to change into a different substance.
12. law of \_\_\_\_ of matter The principle that the total amount of matter is neither created nor destroyed during any chemical or physical change.
15. A well mixed mixture containing a solvent and at least one solute that has the same properties throughout.
17. A pure substance that cannot be broken down into other substances by chemical or physical means.
18. \_\_\_\_ energy: The total potential and kinetic energy of the particles in an object.
19. \_\_\_\_ energy: A form of potential energy that is stored in chemical bonds between atoms.
20. chemical \_\_\_\_: A combination of symbols that represents the elements in a compound and their proportions.