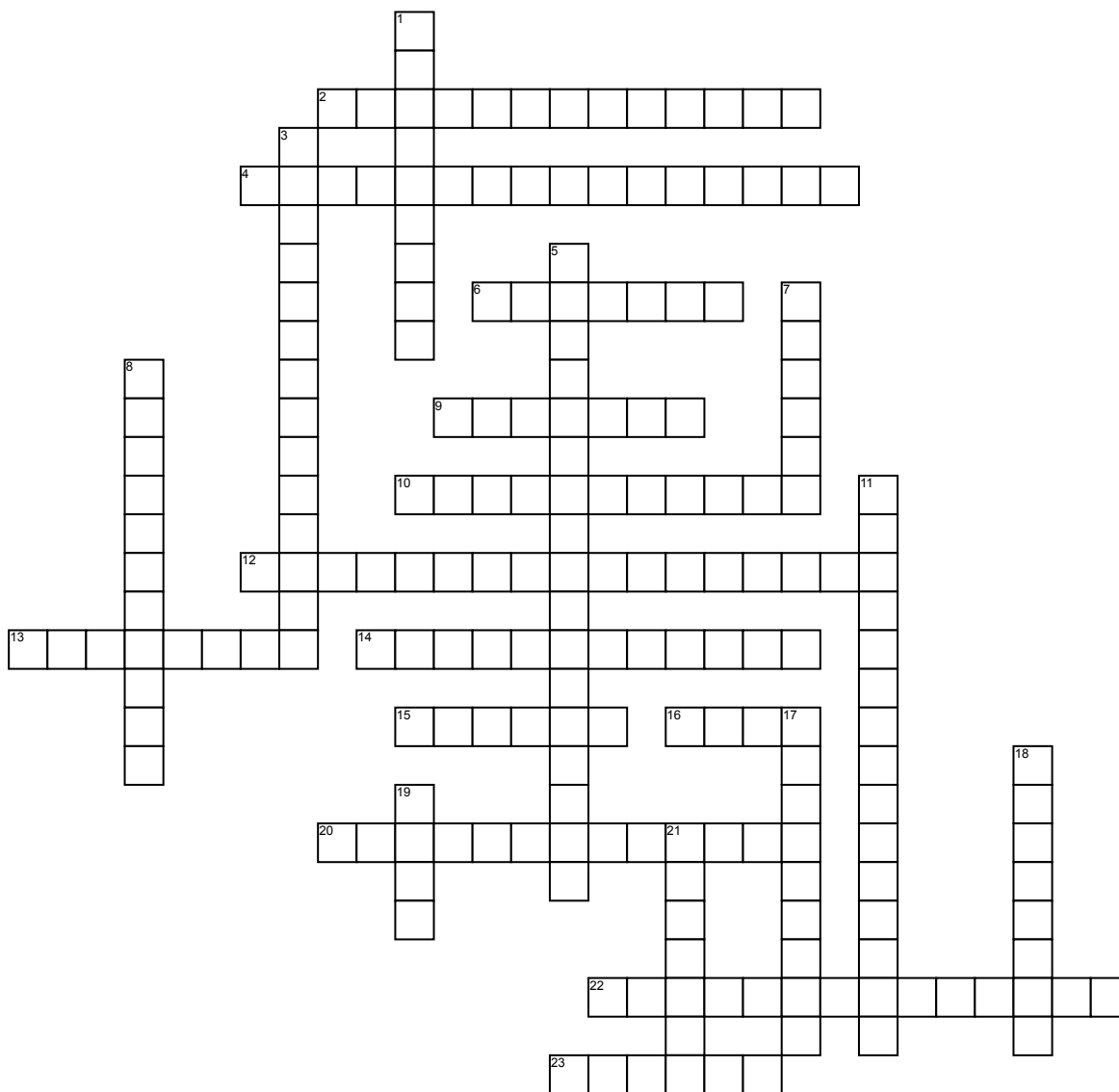


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Substances and Mixtures



## Across

2. The total energy of the motion of all the particles in an object  
 4. A characteristic of a substance that can be observed without changing it into another substance  
 6. A measure of the mass of a material in a given volume  
 9. Made of two or more substances that are together in the same place, but their atoms are not chemically bonded  
 10. A measure of how hot or cold something is  
 12. A change in which energy is absorbed  
 13. A group of two or more atoms held together by chemical bonds

14. When atoms combine, they form this, which is a force of attraction between two atoms

15. A measure of the force of gravity on you  
 16. The amount of matter in an object  
 20. You can usually see the different parts and they can be easily be separated  
 22. A change in matter that produces one or more new substances  
 23. Anything that has mass and takes up space

## Down

1. The study of matter and how matter changes  
 3. Alters the form appearance of matter but does not turn any substances in the matter into a different substance

5. Releases energy

7. The amount of space that matters occupies

8. Are evenly mixed that you can't see the different parts

11. Which shows the elements in the compound and the ratio of atoms

17. A single kind of matter that is pure, meaning it always has a specific makeup, or composition

18. A substance made of two or more elements that are chemically combined in a set ratio

19. The basic particle from which all elements are made

21. A substance that cannot be broken down into any other substances by chemical or physical means