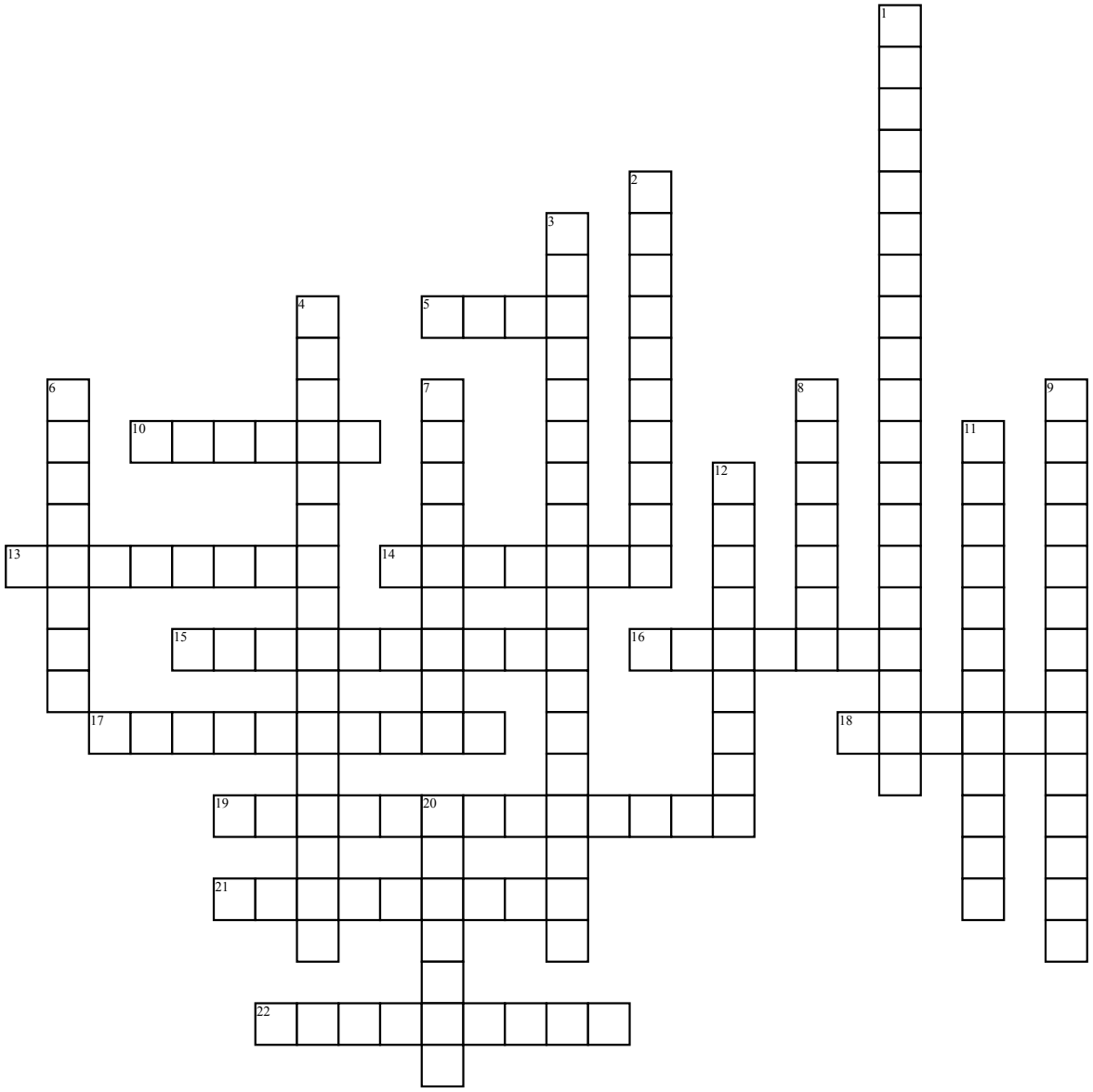
Name: _____ Date: _____ Period: _____

Classifying Matter



Across

5. Smallest possible unit into which matter can be divided, while still maintaining its properties

10. Any number of chemical elements, such as iron or copper, that are often ductile solids and good conductors of heat and electricity.

13. The smallest particle in a chemical element or compound that has the chemical properties of that element or compound.

14. Each row in the periodic table.

15. Happy/Inert Elements (Full Outer Shells)

16. Simplest form of pure substance. They cannot be broken into anything else by physical or chemical means.

17. Two or more substances that are not chemically combined with each other and can be separated by physical means. The substances in the mixture retain their individual

18. Columns from top to bottom in the periodic table

19. An organizational system for elements.

21. Material or device that conducts or transmits heat, electricity, or sound, especially when regarded in terms of its capacity to do this

22. Having extremely high resistance to the flow of charge through them.

Down

1. A mixture that does not appear to be the same throughout.

2. Have properties of both metals and nonmetals.

3. A mixture that appears to be the same throughout.

4. The outer shell of an atom involved in forming bonds to adjacent atoms. Determines the number of bonds an atom can form.

6. Pure substances that are the unions of two or more elements. They can be broken into simpler substances by chemical means.

7. Not able to conduct electricity or heat very well.

8. Two or more substances that are not chemically combined with each other and can be separated by physical means. The substances in the mixture retain their individual

9. One or two letter abbreviation derived from the element's English or Latin name.

11. The number of protons in the nucleus of an atom, which determines the chemical properties of an element and its place in the periodic table.

12. Metal capable of being shaped by hammering or by pressure from rollers.

20. Metal capable of being drawn out into thin threads.