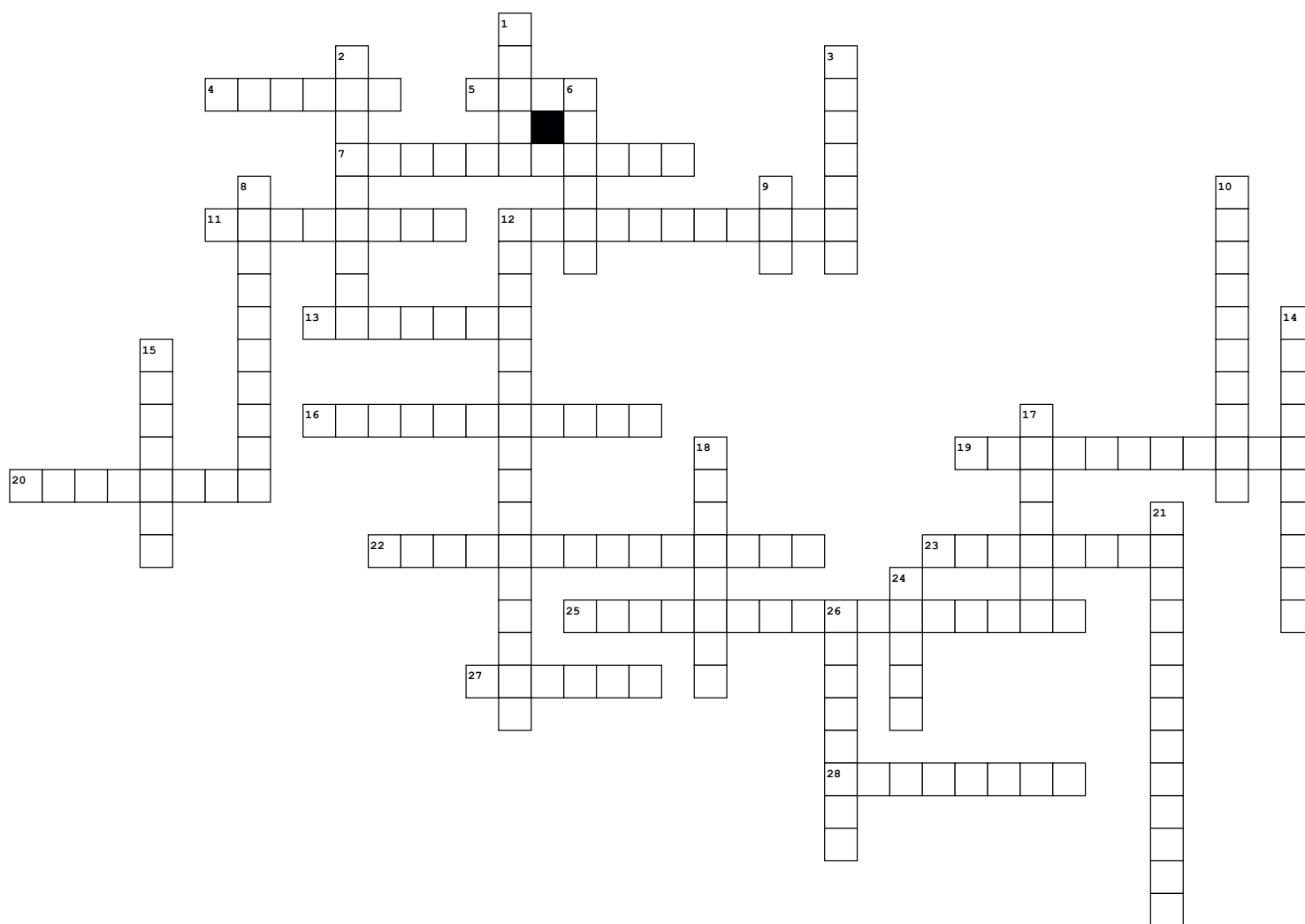


Physical vs Chemical Changes Review



Across

4. a state of matter which has a fixed volume, but no fixed shape
5. the basic unit of a chemical element
7. a liquid turning into a gas through the addition of energy; a physical change
11. another word to describe a chemical change
12. solid particles formed or separated out of a liquid; evidence of a chemical change
13. chemical digestion uses these chemicals to speed up reactions
16. a change in this means an increase or decrease of heat energy in a substance; may be evidence of a chemical change
19. a change in the way something reflects light; can indicate a chemical change

Down

1. the universal solvent, dissolves the most substances
2. breaking food down into nutrients
3. evidence that a gas is formed
6. anything that has volume and mass
8. breaking type of digestion that uses physical means (grinding, tearing, mashing)
9. state of matter that expands to fill its container and has no fixed shape or volume
10. usually a physical change, the even distribution of molecules within a solvent
12. a characteristic that can be observed or measured without changing the substance
14. physical and chemical characteristics of matter used to describe or identify a substance

- 20.** a change that involves substances being pulled apart or combined to form completely different substances
- 22.** a chemical reaction in plants that changes carbon dioxide and water into oxygen and water
- 23.** a group of atoms bonded together; may be the same or different elements
- 25.** a characteristics that can be observed or measured only when atoms rearrange during a chemical change
- 27.** distinct forms of matter: solid, liquid, gas; also referred to as phases
- 28.** a substance with unique chemical and physical properties formed when two or more elements are chemically bonded during a chemical reaction
- 15.** a solid turning into a liquid through the addition of energy; a physical change
- 17.** a pure substance composed of the same type of atom throughout
- 18.** a liquid turning into a solid through the removal of energy; a physical change
- 21.** the state or process of rotting or decay; a chemical change
- 24.** a state of matter with a fixed volume and shape
- 26.** a change to a substance that occurs without forming a new substance