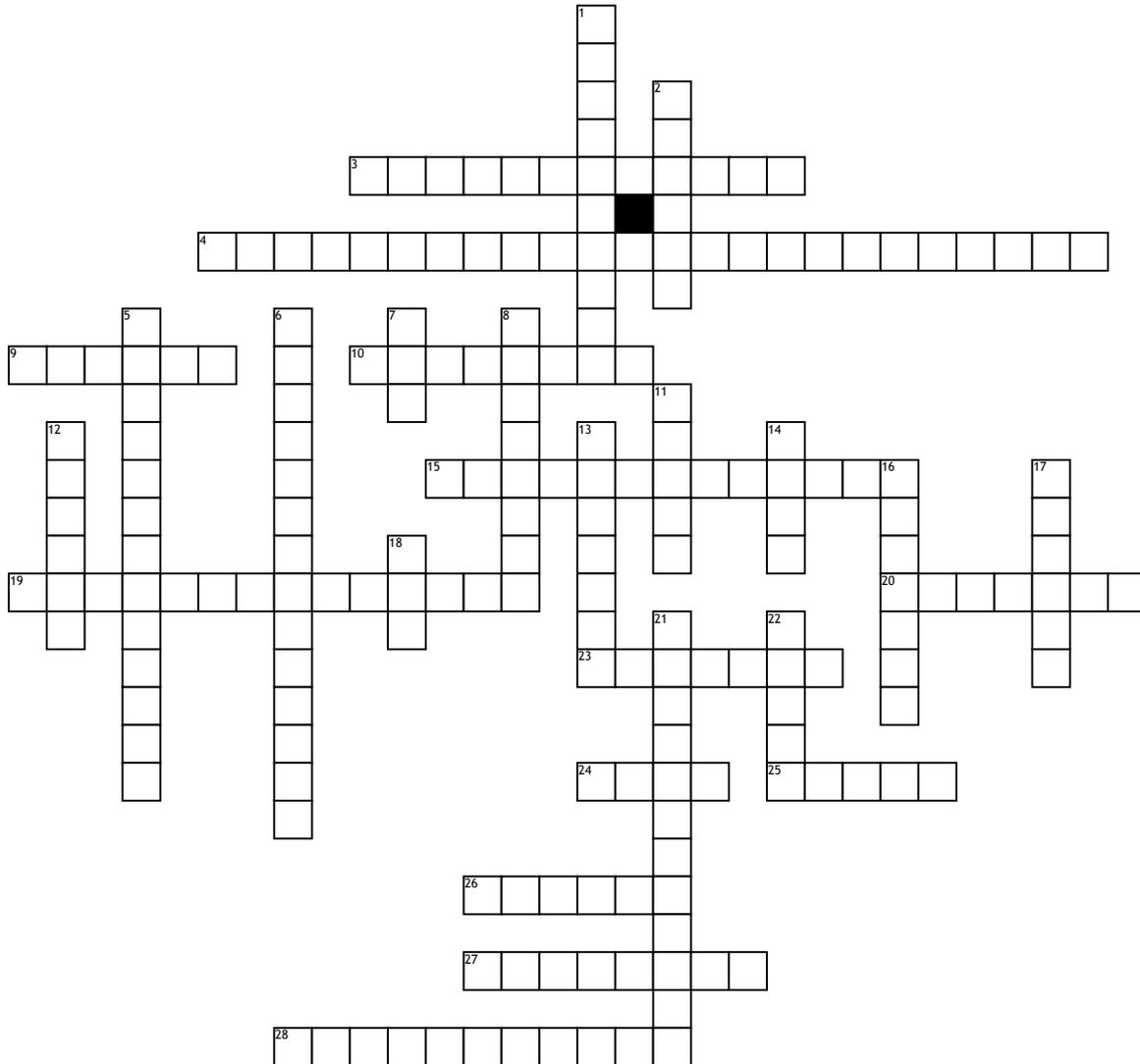


Name: \_\_\_\_\_

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

# Earth Science Crossword Puzzle



**Across**

- 3. the change in state from a gas to liquid caused by removing energy
- 4. scientific law that states that matter and energy cannot be created or destroyed, but can only transfer between objects or transform to a different form
- 9. a fluid state of matter in which the particles are free to move but are held close together
- 10. a pure substance formed by chemically combining two or more elements
- 15. a change of one element into another element by changes occurring in the nucleus of the atom
- 19. a change in matter that doesn't alter its chemical identity
- 20. a physical combination of two or more substances
- 23. the attractive force between any two objects based on their masses

- 24. when a force acts on moving object in the same or opposite direction of its motion or when energy is transferred from one object to another
- 25. when particles align in a fixed arrangement
- 26. a fluid state of matter made of extremely high temperature ionized particles
- 27. the change in a state from a liquid to a solid caused by removing energy
- 28. the change in a state from a solid directly to a gas caused by adding energy

**Down**

- 1. the change in state from gas directly to a solid caused by removing energy
- 2. anything that has mass and takes up space
- 5. a material made of only one kind of element or compound?
- 6. the change from one pure substance to another by rearrangement of atoms in a chemical reaction
- 7. a changed atom or group of atoms cause by a charge imbalance, which is produced by an unequal number of protons and electrons

- 8. two or more chemically bonded atoms
- 11. a push or pull on an object
- 12. the force of gravitational attraction between an objects mass and its resident planet
- 13. the change of state from a liquid at the melting point that is caused by adding energy
- 14. the measure of the amount of matter in an object
- 16. a pure substance made of only one kind of atom
- 17. the amount of space that an object occupies
- 18. a fluid when the particles move so fast and are so far apart to where they have such little interaction with each other
- 21. the change in a state from a liquid to a gas by adding energy
- 22. the smallest neutral particle of an element that retains the characteristics of that element