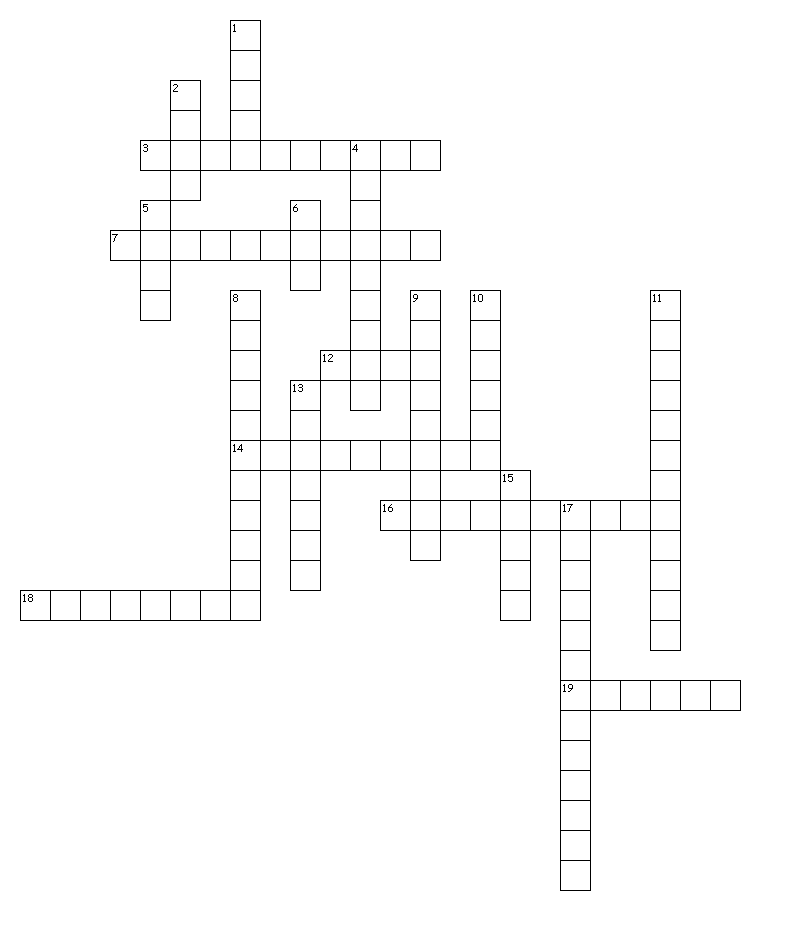
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**Atoms, Molecules & Heat**



Across

3. heat transfer through direct contact

7. the average measure of heat

12. an example of an insulator

14. a material that heat can pass through quickly

16. heat transfer through current

18. a group of atoms bonded together

19. particles are close together with no regular arrangement

Down

1. particles are tightly packed usually in a regular pattern

2. the basic building block of matter

4. a material that energy can't pass through quickly

5. the transfer of thermal energy between substances

6. particles are well separated with no regular arrangement

8. physical changes that are reversible

9. heat transfer by the flow of electromagnetic radiation

10. anything that has mass and takes up space

11. movement of thermal energy from one thing to another

13. how tightly packed atoms and molecules are

15. an example of a conductor

17. energy causing the particles of matter to move (the total energy)