

Answer Key

Fill in the blank for Mechanical Mixtures

1. particles; 3. spaces; 4. faster; pure; impure; heterogeneous mixtures; homogeneous mixtures. Mechanical mixtures = heterogeneous mixtures; Solutions = homogeneous mixtures.

Coding for Particle Theory of Matter

- 2: Heated = particles moving faster;
- 5: Particles = move faster until some break free and evaporate;
- 7. Particles = move slower until freezing point; 3. Cooled = particles moving slower;
- 5. Particles = move slowly until they eventually turn into a liquid (condensation);
- 7. Particles = move even faster at a higher temp.

Substance Descramble

Water	Seawater	Soil
Diamond	Vinegar	Blood
Baking Soda	Steel	Noodle Soup

Thermal Conductors and Insulators

- 1. Water [conductor]
- 2. Plastic (insulator)
- 3. Oven mitt (insulator)
- 4. Saucepan [conductor]
- 5. Copper wire [conductor]
- 6. Aluminum foil [conductor]
- 7. Wood (insulator)
- 8. Thermos (insulator)
- 9. Air (insulator)
- 10. Steel nail [conductor]
- 11. Cork board (insulator)
- 12. Brass key [conductor]
- 13. Glass (insulator)
- 14. Wool (insulator)
- 15. Foam (insulator)
- 16. Feathers (insulator)
- 17. Fur (insulator)
- 18. Electrical tape (insulator)