

8. Freshly boiled eggs are placed in an ice bath.

eggs	ice bath, univ.	leaving
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9. Hot wax is dripped onto a cool glass.

wax	glass, univ.	leaving
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10. A piece of chocolate is placed in your mouth.

chocolate	mouth, univ.	entering
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11. The snow is in the warm sunlight in early spring.

snow	air, univ.	entering
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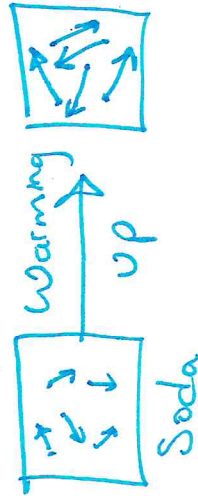
12. Rain falls on the surface of the road just as the temperature reaches freezing point.

Rain	Road, univ.	leaving
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13. How do particles transfer energy?

Particles transfer energy by colliding with each other.

14. Draw a diagram of how particles are transferring energy in #2 in the space below:



Key

Name

Date

Pd

System & Surroundings WS

Directions:

- For each of the scenarios described below, identify the system and the surroundings.
- Describe whether energy is leaving the system or entering the system.

Scenarios:

- A cup of cold coffee is heated up on a stovetop.

cup of coffee	stove top + universe	entering
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- A can of cold soda warms as it is left on the counter.

can of soda	air + universe	entering
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- A tray of water (20 °C) is placed in the freezer and turns into ice cubes (-8 °C)

Tray of water	freezer + universe	leaving
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- One of the ice cubes described in #3 is placed in a glass of room temperature (25 °C) soft drink.

ice cubes	soft drink glass + universe	leaving
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- Some of the water you spilled on your shirt evaporates.

some water	shirt + universe	entering
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- Water vapor in the room condenses on a cold surface.

water vapor	room + universe	leaving
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- A pan of water (25 °C) is heated to boiling and some of the water is boiled away.

water	air universe	entering
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#5

