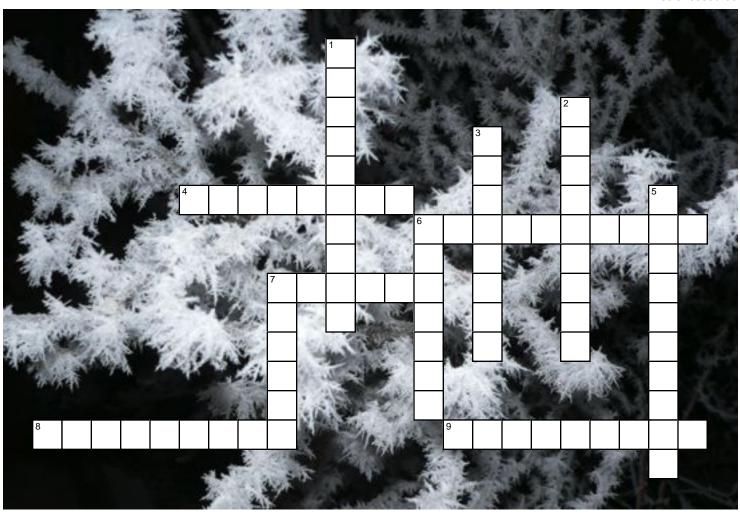
10.4 Heat Transfer

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Across

- 4. Heat is transferred by invisible waves called waves.
- 6. _____ is the transfer of heat through a solid or between a solid that is touching another solid, a liquid or a gas.
- 7. When invisible waves of infrared energy come into contact with a solid, the particles in the solid vibrate
- 8. Both conduction and convection involve the movement of _____. Radiation does not.
- 9. ____ (radiant energy) is the transfer of heat using waves.

Down

- 1. Coloured solids can absorb and reradiate infrared waves, but _____ solids, liquids and gases allow infrared waves to pass easily through them.
- 2. Conduction occurs in one ____ only, from a region that is warmer to a region that is cooler.
- 3. Oven mitts prevent the rapid _____ of heat to a baker's hands when he or she removes a cookie sheet from the oven.
- 5. _____ is the transfer of heat through a fluid (a liquid or a gas).
- 6. The circular pattern of moving particles within fluids is called a convection _____.
- 7. Convection, the transfer of thermal energy by moving particles, occurs in _____ (liquids and gases).