

Name _____

Cooling and Warming the World: How Heat Pumps and Refrigeration Cycles Work

Short Answer

1. Describe the four main components of a refrigeration cycle and their roles.
2. How does a heat pump provide cooling during the summer months?
3. Explain why heat pumps are considered energy-efficient heating and cooling solutions.
4. How do the first and second laws of thermodynamics play a role in the operation of heat pumps and refrigeration cycles?
5. What is the environmental benefit of using energy-efficient heat pumps and refrigeration systems?

