

Name _____

Cool Science: The Magic of Air Conditioning and Refrigeration

Short Answer Key

1. Air conditioning removes heat by circulating a special refrigerant that absorbs heat from indoor air and releases it outside.
2. A thermostat in a refrigerator monitors and controls the temperature inside. It helps maintain a constant temperature by turning the cooling system on when needed and off when the desired temperature is reached.
3. A refrigerator must maintain a cold temperature to slow down the growth of bacteria and keep food fresh, preventing spoilage and foodborne illnesses.
4. Refrigeration technology is used to freeze ice cream by rapidly cooling and freezing the mixture, creating a solid and creamy texture.
5. Answers will vary, but examples could include staying cool in hot weather with air conditioning or keeping food fresh in the fridge.

