

Name _____

Cool Science: The Magic of Air Conditioning and Refrigeration

Open-Ended Response Questions

1. Research and discuss the environmental impact of air conditioning and refrigeration technology. What are some eco-friendly alternatives or practices that can reduce their energy consumption?
2. Imagine you are an engineer designing a new, energy-efficient refrigerator. Describe three innovative features or technologies you would incorporate and how they would benefit consumers.
3. Explain the concept of thermal insulation and its importance in both air conditioning and refrigeration systems. How does it help maintain temperature control?
4. Discuss the challenges of maintaining and repairing air conditioning and refrigeration systems, and explore the role of HVAC (heating, ventilation, and air conditioning) technicians in this field.

