

**Grade 7 Science**  
**Unit C**  
**HEAT AND TEMPERATURE**  
**Study Guide**



**Study Guide:** This will be your primary study source for the unit.

**Text:** Science in Action 7 174-257 and Science Focus 7

**Unit Exam:** December (TBA)

**Unit Overview:** The production, transfer and transformation of heat energy plays an important role in meeting human needs. In learning about heat, you investigate sources and uses of heat energy and consider the impact of resource usage on our long-term ability to meet energy needs. You explore different applications, investigate the scientific principles involved and consider questions about the nature of heat. The particle model of matter is introduced to help explain observations and understand relationships between heat and temperature.

**Focusing Questions:** What heat-related technologies do we use to meet human needs? Upon what scientific principles are these technologies based? What implications do these technologies have for sustainable use of resources?

**Marking:** (approximate)

Daily work	30%
Lab/Project	20%
Quizzes	20%
Unit Exam	30%



# Grade 7 Science Unit C Heat And Temperature Study Guide

**JL Elias**



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Artificial intelligence AI opens new opportunities for STEM education in K 12 higher education and professional education contexts This book summarizes AI in education AIED with a particular focus on the research practice and technological paradigmatic shifts of AIED in recent years The 23 chapters in this edited collection track the paradigmatic shifts of AIED in STEM education discussing how and why the paradigms have shifted explaining how and in what ways AI techniques have ensured the shifts and envisioning what directions next generation AIED is heading in the new era As a whole the book illuminates the main paradigms of AI in STEM education summarizes the AI enhanced techniques and applications used to enable the paradigms and discusses AI enhanced teaching learning and design in STEM education It provides an adapted educational policy so that practitioners can better facilitate the application of AI in STEM education This book is a must read for researchers educators students designers and engineers who are interested in the opportunities and challenges of AI in STEM education

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