

## Activity 1.3.3 Thermodynamics Answer Key

### Introduction

Think back to the last time someone complained about a door being left open. What did you notice about the temperature within the room as a result of the open door? In Activity 1.3.3 you will investigate the effects of work, thermal energy, and energy on a system, as in the case of the room with the door left open.

### Procedure

Answer the following questions as your teacher discusses the Introduction to Thermodynamics presentation.

1. Define thermodynamics.  
**The study of the effects of work, thermal energy, and energy on a system**
2. List three examples of a thermodynamic system.
  - a. **Nuclear power**
  - b. **Electronic heat sink**
  - c. **Rocket launch**
3. Define thermal energy.  
**Kinetic energy in transit from one object to another due to temperature difference**
4. Define temperature.  
**The average kinetic energy of particles in an object**
5. Fill in the table below with the correct scale and unit.

Scale	Freezing point of water	Boiling point of water
Celsius	<b>0°C</b>	<b>100°C</b>
Fahrenheit	<b>32°F</b>	<b>212°F</b>
Kelvin	<b>273K</b>	<b>373K</b>

# **Electricity And Thermodynamics Answer Key**

**Karin Nielsen-Saines**



# Electricity And Thermodynamics Answer Key

*University Physics* Samuel J. Ling, Jeff Sanny, William Moebs, 2017-12-19 *University Physics* is designed for the two or three semester calculus based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency.

**Coverage and Scope:** Our *University Physics* textbook adheres to the scope and sequence of most two and three semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

**VOLUME II Unit 1: Thermodynamics**  
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Chapter 2: The Kinetic Theory of Gases  
Chapter 3: The First Law of Thermodynamics  
Chapter 4: The Second Law of Thermodynamics

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