

**Grade 6
Science
Unit 4: Properties of Energy
Louisiana Comprehensive Curriculum**

Unit Description

This unit introduces the student to the basic forms of energy with an emphasis on the properties of energy in relation to weather processes. Energy transferal and transformation are also explored.

Student Understandings

Students need to understand how energy can be transformed or transferred. Forms of energy (i.e. heat) can be explored, as well as the ways to measure and transform energy for practical use.

Guiding Questions

1. Can students cite examples of the various forms of energy?
2. Can students explain where various forms of energy originate and how they are related?
3. Can students describe how various forms of energy are transformed from one form to another?
4. Can students cite examples of energy transformations that occur in our presence in our daily lives?

Unit 4 Grade-Level Expectations (GLEs)

Physical Science	
24.	Describe and give examples of how forms of energy may be classified as potential or kinetic energy (PS-M-C1)
25.	Compare forms of energy (e.g., light, heat, sound, electrical) (PS-M-C1)
26.	Describe and summarize observations of the transmission, reflection, and absorption of heat energy (PS-M-C1)
28.	Explain the law of conservation of energy (PS-M-C2)
37.	Compare how heat is transferred by conduction, convection, and radiation (PS-M-C5)
38.	Identify conditions under which thermal energy tends to flow from a system of higher energy to a system of lower energy (PS-M-C5)