

SUPPLEMENTAL LESSONS

**Science Grade 3
3rd Quarter**



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THIRD QUARTER GRADE 3 REVISED STANDARDS ON FORCE, MOTION, AND ENERGY

Learning Competency: Apply the knowledge of the sources and uses of light, sound, heat, and electricity

Lesson Focus: Energy at Home, School, Everywhere

I. Introduction

Activating Prior Knowledge:

1. Ask the pupils the following:
 - Where do you get the energy to walk, jump, or run?
 - What will happen if you do not eat food for a week?
 - Why is energy important?
2. Tell them to look around.
 - From what you see, feel, hear, or even smell, which is matter? Name them.
 - Which is NOT matter?

II. Body

Presenting the Key Question

KQ: What are the different types of energy available in school, at home, and everywhere?

Preparation

Activity 1 – Have the pupils make a paper pinwheel. Let them watch a YouTube video to teach them if they have not tried making one before.

“How to make a Pinwheel that Spins! Easy Tutorial!” <http://www.youtube.com/watch?v=4ox88B8yJWQ>

Activity 2 – See to it that the classroom has different appliances or materials running on electricity, battery, or other sources. Examples: wall clock, electric fan (or airconditioner), radio or TV set, light bulbs, etc.


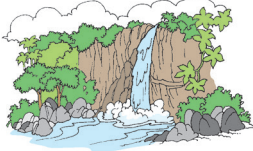

1. Show the pupils the pinwheel. Ask, “How can we make this spin?”
Tell the pupils that “blowing” air is doing work on the pinwheel. It makes the pinwheel spin. Spinning is doing work, too. What makes the pinwheel work? Mechanical energy makes the pinwheel spin.
2. **Hide-and-Seek**
Within 15 minutes, challenge the pupils to locate in the classroom materials which run on energy. **Warn them NOT to touch anything.** They will only observe by using their sense of sight. Then, they will tabulate their data as shown on the next page.

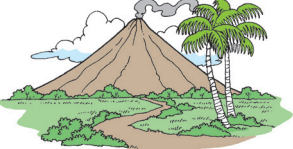


Material	How it Works	Type of Energy that Makes it Work

- Did they see the energy sources of those items? If yes, ask them to describe them. If not, why didn't they see it? Where could the energy used to run the items possibly be found?

3. Sourcing Energy

Where do different types of energy come from? Identify the type of energy that is produced by each source.

Source	Type of Energy
	
	
	

4. Chain Reaction

The pupils will draw a chain of energy changes that they have observed in school, at home, or in the environment.

Example: switch on TV set (electrical energy)

- TV set warms up (heat)
- a screen lights up (light energy)
- volume is turned up (sound energy)

III. Conclusion

1. Often, we hear or read about news about rising costs of electricity.
 - Assign the pupils to find out about the sources of electricity in the Philippines.
 - Have them answer the question: What can you do to help conserve electricity?
 - The pupils may be assigned to make a poster campaign on energy conservation.
2. What did they learn about these activities?
Why are these important?
The pupils will write in their journal five sentences describing energy sources and why we need them.