



PARENT UNIVERSITY

Unlimited Hands-On Science

NOVEMBER 2016

STANDARD 3.P.3: The student will demonstrate an understanding of how electricity transfers energy and how magnetism can result from electricity

“ENERGY”

Kinetic vs. Potential

- I. Intro (Rules)
- II. What is Energy? (Discussion)
 - A. The ability to do work.
 - B. Types of Energy i.e. potential, kinetic
- III. Let's Demonstrate (Hands-On)
 - A. Potential Energy
 1. Stored Energy
 2. Oil, Coal, Wood or Gas
 - B. Kinetic Energy (Hands-On)
 1. Energy in Motion
 2. Mechanical, Electrical, Gravitational
- IV. Review (Terminology)
 - A. Grades K-3: energy, kinetic, potential, work, gravity, electricity, chemical, stored, motion
 - B. Grades 4-6: energy, kinetic, potential, work, gravity, electricity, chemical, stored, motion, thermal, reaction, force
- V. Engaging Experiments for home.
 - A. (K-3)- Energy for Life (pink sheet)
 - B. (4-6)- Energy from Garbage (yellow sheet)

AWESOME REFERENCES

1. http://www.lovemyscience.com/cat_pressure.html
2. <http://www.sciencekids.co.nz/experiments.html>
3. <http://kids.usa.gov/>

JUST A FEW BOOKS

1. *Experiments with Air: Safe and Easy-To-Do Experiments* Sterling Publishers Pvt.Ltd (January 1, 2011)
2. *Hot Air (Caldecott Honor Book)* by Marjorie Priceman (Jul 1, 2005)