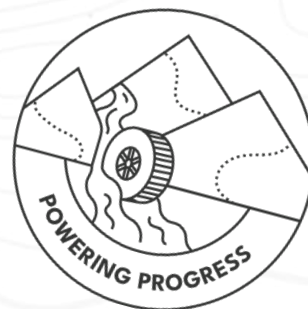


Energy Transfer Scavenger Hunt

We have lots of different ways to describe energy. Explore your surroundings and find real-life examples of energy transfer. Use your senses, your curiosity, and your engineering brain!



Energy Types:

A Field Guide for Young Engineers



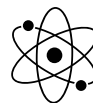
Chemical

Energy stored in substances. Released during reactions (like food or fuel).



Gravitational Potential

Energy stored in an object because it's up high—like water behind a dam.



Nuclear

Energy in the center of atoms. Released in nuclear reactions.



Electrical

Energy from moving electric charges. Powers motors, circuits, and tech.



Kinetic

Energy of movement. Fast-moving water, spinning wheels, or rolling marbles.



Sound

Energy that travels in waves—you can hear it in gears or rushing water.



Electromagnetic

Energy from light and waves—includes sunlight, X-rays, and microwaves.



Mechanical

Energy in moving systems—includes kinetic + potential. Found in machines.



Thermal (Heat)

Energy from friction or particle movement. Makes things warm.

What to Look For:

Energy Transfer Type

Example You Found

What's the Evidence? (What did you see, feel, hear?)

Electrical › Heat

.....

Electrical › Light

.....

Mechanical › Sound

.....

Chemical › Thermal

.....

Light › Electrical

.....

Gravitational › Mechanical

.....

Mechanical › Electrical

.....

Thermal › Mechanical

.....

Mechanical › Thermal

.....

Bonus Challenges: Find something that uses more than one type of energy transfer. Find an example that doesn't use electricity at all.