

# Knowing Energy: The Big Picture

Energy Revealed

Answer Key

Level 1-2: Grades 3-8

Level 3-4: Grades 9-12



## Reminder:

- $\text{kWh} = (\text{Watts}/1000) \times \text{Time (hours)}$
- $1\text{kW} = 1000 \text{ W}$

## Level 1 Questions/Activities:

1. Using everything you have learned so far, pick an energy-saving goal(s) for your home or lifestyle. (i.e., lower energy cost, lowering greenhouse gases, educating your household, or simply understanding how energy is used).

Possibilities are endless here, get creative!

2. Develop a plan to achieve this goal.

Possibilities are endless here, get creative!

3. Create a short presentation in the format of your choice to present how you will achieve this goal. Be Creative! Use PowerPoint, YouTube, posters etc. the possibilities are endless.

## Level 2 Questions/Activities:

- **Note:** Complete level 1 questions/activities first if you haven't already done so.

**1. Do it! Take at least two of your ideas or goals from part one and bring them to life. Remember simple ideas sometimes do the most.**

**2. Develop a plan to achieve this goal.**

Personal to each learner.

**3. See if they work. There are many ways to see the results. Quantitatively (something that is measured, or counted like numbers) or qualitatively (trends, observations, or anything that cannot be counted)**

**Quantitative Examples: Looking at energy bills and seeing them drop, tracking if your front door is closed more often**

**Qualitative Examples: Watching less tv or playing fewer video**

Personal to each learner.

**4. What are some of the non-energy benefits from your plan?**

**Examples: Less time watching tv = more time learning or playing outside**

Some non-energy benefits include but are not limited to financial savings, a more comfortable home, increased quality in things like lighting and reliability of certain devices etc.