

# TEACHER INFORMATION

“Students Working Together: Energy Actions at School” Virtual Workshop was recorded Mar 1, 2023  
Presenters: Jake Selseth and Alexis Troschinetz from Clean Energy Resource Teams (CERTs)

- [Workshop Recording](#) (48 min)
- [Presenter Slides](#)
- [Classroom Energy Hunt worksheet](#)
  - *The worksheet is below (pages 2-5 of this document)*

## TEACHER INSTRUCTIONS

### BEFORE THE WORKSHOP:

- Print ONE copy of the attached *Classroom Energy Hunt* activity. (4 pages; print single-sided)
- Divide students into 4 groups.

### DURING THE WORKSHOP, when prompted by the workshop presenter:

- Give one page of the worksheet to each group.
- Groups will have about 5 min to explore the classroom and write down their answers.

**\*POLL QUESTIONS\* do not appear in the recording.** They were:

**Group 1: LIGHTING.** Are the light fixtures in your classroom LED?

- All of them are LEDs
- Some of them are LEDs
- None of the light fixtures are LED
- We don't know what kind of lights they are.

**Group 2: HEATING.** How is your classroom heated?

- Radiator
- Forced Air
- Other

**Group 3: WINDOWS.** Do the windows in your classroom have any coverings (blinds/curtains)?

- Yes
- No
- There are no windows in the classroom.

**Group 4: PLUG LOAD.** Do some of the plugged-in items get turned off after school?

- Yes
- No
- We don't know if items are turned off after school.

***\*STUDENT WORKSHEET FOLLOWS\****

# Classroom Energy Hunt Worksheet

## Group 1: Lighting

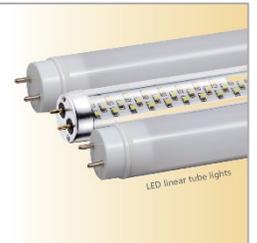
### Student Instructions:

- Review the questions below and hunt your classroom to find answers!
- One student should record the group's answers on the worksheet.
- Afterward, your group will answer a Zoom poll to report your findings.

### 1. Do the light fixtures have LED\* light bulbs?

- a. Yes
- b. No
- c. Not sure

*\*Hint: If you look at the light while squinting your eyes, and you see individual sources of light spaced about half an inch apart along the tube, then they are LEDs.*



### 2. How many light fixtures do you have?

qty. \_\_\_\_\_

### 3. How are lights controlled?

- a. Toggle Switch (see photo)
- b. Sensor Control (see photo)
- c. Other \_\_\_\_\_



Toggle Switch



Sensor Control

### 4. Are lights turned off when not in use?

- a. Yes
- b. No
- c. Not sure

# Classroom Energy Hunt Worksheet

## Group 2: Heating

### Student Instructions:

- Review the questions below and hunt your classroom to find answers!
- One student should record the group's answers on the worksheet.
- Afterward, your group will answer a Zoom poll to report your findings.

### 1. What type of heating does your classroom have?

- a. Radiator (see photos)
- b. Forced Air (see photos)
- c. Other, or not sure

**Radiators** might look like any of these:



Cabinet Radiator



Wall Radiator



Cast Iron Radiator

**Forced Air** might look like any of these:



Ceiling Vent



Wall Vent

### 2. What type of thermostat do you have in the classroom?

(Circle the image below that looks most similar to it)



Radiator Control



Manual



Programmable



Smart

### 3. If it is a Manual thermostat (radiator or room), does your class set the temperature back each evening to save energy? (Circle one)

Yes

No

Not Sure

## Classroom Energy Hunt Worksheet

# Group 3: Windows

### Student Instructions:

- Review the questions below and hunt your classroom to find answers!
- One student should record the group's answers on the worksheet.
- Afterward, your group will answer a Zoom poll to report your findings.

1. Do you have outside windows in your classroom? (*Circle one*)      **Yes**      **No**

2. What percentage of the outside wall is taken up by windows?

- a. Less than 25%
- b. About 25%
- c. About 50%
- d. More than 50%

3. How many panes of glass is each window made up of?  
(*Circle one*)

1 pane      2 panes      3 panes      Not sure



*Window Panes  
(double, triple)*

4. Do the windows open? (*Circle one*)      **Yes**      **No**

5. If the windows have a covering, what type is it?

- a. Curtain
- b. Blinds
- c. Roll-down Shade
- d. Other \_\_\_\_\_



*Window Covering*

6. Are the coverings raised and lowered?

- a. Sometimes
- b. Never
- c. Always
- d. Nightly

# Classroom Energy Hunt Worksheet

## Group 4: Plug Loads

### Student Instructions:

- Review the questions below and hunt your classroom to find answers!
- One student should record the group's answers on the worksheet.
- Afterward, your group will answer a Zoom poll to report your findings.

### 1. What is plugged into the wall outlets in your classroom?

*(For each item, write the number that are plugged in.)*

Computers	qty.	_____
Printers	qty.	_____
Space Heaters	qty.	_____
Pencil Sharpeners	qty.	_____
Extra lighting (table/floor lamps)	qty.	_____
Other: _____	qty.	_____

### 2. Of the items listed above, which ones get turned off when nobody's in the room?

*(Circle those items on your list.)*



*Energy used by equipment plugged into outlets can really add up!*