



# CCS Energy and Water Management Program Winter 2021-2022 Focus

## PUT NUMBERS TO YOUR ACTIONS AND CALCULATE YOUR SAVINGS AT SCHOOL!

Help calculate how much energy and water you are saving in your classroom or even for your entire school!

You and your class hopefully have some great energy and water saving actions put in place to do each day. These actions might only save a little a day by each person, but the savings will add up when you look across all students for an entire school year! This quarter you can track or estimate how much energy and water you are using and see how you can help make a difference at school!

### WINTER ENERGY AND WATER SAVING TIPS



- Don't forget to do your energy and water saving actions at home and at school.
- Track your energy and water usage to find out your impact.
- Small energy and water saving actions can still mean big savings!
- If you see an issue like a water leak or a door being kept open, get help from a teacher.



### WHAT IS AN ENERGY AND WATER AUDIT?

An audit is performed on a building or specific space and involves a survey, inspection, and analysis of the area's energy and water usage. Audits can help find areas that need to be improved to increase efficiency.

### TRACK YOUR SCHOOL'S ENERGY AND WATER USAGE:

- [Energy and Water Dashboard](#) - search your school to see your school's utility usage and utility costs.
- Your teacher will give you some questions and discussion points on the information and graphs in this dashboard.

### CHECK OUT THIS WATER CALCULATOR FOR YOUR HOME:

- Take your water investigation home and use this home water calculator to see how much water you use and how you compare to other homes in your area!

Home Water Calculator: <https://home-water-works.org/calculator>

- *How are your water saving actions impacting your home water usage?*

# Classroom Energy Audit



What uses electricity in your classroom?

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What do you think uses the most electricity?

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HOW MANY LIGHTS DO YOU COUNT IN YOUR CLASSROOM? \_\_\_\_\_

Does your classroom have lights that automatically shut off?	( YES / NO )
Does your classroom have a reminder to turn off the lights?	( YES / NO )
Does your classroom use natural light when possible during the day?	( YES / NO )

HOW MANY COMPUTERS, LAPTOPS, OR TV DISPLAYS DO YOU COUNT IN YOUR CLASSROOM? \_\_\_\_\_

Are the devices ENERGY STAR certified? (Look for a blue ENERGY STAR sticker.)	( YES / NO )
Are your devices set to go to sleep/hibernate when not in use, and turned off overnight?	( YES / NO )
Are your devices plugged into power strips?	( YES / NO )
Are rechargeable devices unplugged once charged?	( YES / NO )

CHECK YOUR CLASSROOM THERMOSTAT. WHAT IS THE TEMPERATURE SETTING OF THE ROOM? \_\_\_\_\_

Is your class thermostat temperature setting between: 68°F – 72°F?	( YES / NO )
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HOW MANY WINDOWS DO YOU COUNT IN YOUR CLASSROOM? \_\_\_\_\_

Are windows closed when heating/cooling equipment is on?	( YES / NO )
Do the windows have blinds?	( YES / NO )
Do you <b>NOT</b> feel any cold air around the edges of the windows (cold air would mean air is leaking from the outside)?	( YES / NO )

HOW MANY DOORS TO THE OUTSIDE DO YOU COUNT IN YOUR CLASSROOM? \_\_\_\_\_

Are doors to the outside closed when heating/cooling equipment is on?	( YES / NO )
Do you <b>NOT</b> feel any cold air around the edges of the door (cold air would mean air is leaking from the outside)?	( YES / NO )
Do you have a reminder put up to shut the door?	( YES / NO )

HEAT IN YOUR CLASSROOM IS GENERATED FROM NATURAL GAS, CAN YOU FIND WHERE IN YOUR CLASSROOM THE HEAT IS COMING FROM?

Are the heating/ventilation units <b>NOT</b> blocked by books, papers, or other materials?	( YES / NO )
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*If a question does not apply to your classroom (ex: does not have a door to the outside)- select YES*

COUNT THE NUMBER OF “YES” RESPONSES CIRCLED: \_\_\_\_\_ /15

<b>0 - 5 Yes's</b> Lots of Great Improvement Opportunities to Save Energy Your classroom may not be energy efficient.	<b>6 - 10 Yes's</b> On Your Way to Energy Efficiency Your classroom is on the right track to energy efficiency!	<b>11 - 15 Yes's</b> Energy Efficient Classroom Your classroom is energy efficient! Great job!
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What can you do to improve your score?

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# Classroom Water Audit



## What uses water inside your school

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### What do you think uses the most water (indoors)?

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#### DRINKING WATER

Does your class bring their own reusable water bottles rather than use single-use plastic water bottles?	( YES / NO )
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#### SINK *(Use the sink in your classroom or the closest sink to your classroom)*

Is the flow coming from the faucet 1.5 gallons per minute or less? <i>How to Check: Run the faucet for 1 minute and collect the water. Measure out the water to check if you collected 1.5 gallons or less.</i>	( YES / NO )
Is the faucet NOT leaking?	( YES / NO )
Do you turn off the faucet while washing hands?	( YES / NO )
Do you have a reminder sign to turn off the faucet while not in use?	( YES / NO )

#### TOILETS *(Check a bathroom closest to your classroom)*

Does your school's toilet(s) use 1.6 gallons per flush or less?	( YES / NO )
Does your school's toilet(s) use 1.28 gallons per flush or less?	( YES / NO )
Does your school's toilet(s) have a WaterSense label? <i>WaterSense labeled toilets will use 1.28 gallons per flush or less.</i>	( YES / NO )
Do your school's toilets not leak or have water continuous flowing? <i>How to Check (tank type toilets only): Put a few drops of food coloring in the tank of the toilet. Wait 10 minutes. Look to see if the color appears in the bowl of the toilet. If you see color, your toilet is leaking and make sure to report it!</i>	( YES / NO )
Do you have a reminder sign to tell a teacher of any water leaks?	( YES / NO )

*Check with your teacher for assistance on how to measure how much water your toilet uses.*

**COUNT THE NUMBER OF "YES" RESPONSES CIRCLED: \_\_\_\_\_ /10**

<p><b>0 - 2 Yes's</b> <b>Lots of Great Improvement Opportunities to Save Water</b> Your classroom may not be water efficient.</p>	<p><b>3 - 7 Yes's</b> <b>On Your Way to Water Efficiency</b> Your classroom is on the right track to water efficiency!</p>	<p><b>8 - 10 Yes's</b> <b>Water Efficient Classroom</b> Your classroom is water efficient! Great job!</p>
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### What can you do to improve your score?

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*If your classroom is in the 0 - 7 range, reach out to the Energy Water Management Team for ideas on how to improve your classroom's efficiency: [EnergyWaterTeam@Charlottesville.gov](mailto:EnergyWaterTeam@Charlottesville.gov)*