



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 winter, 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 looking for things that use energy and water and calculating the area's energy and water usage. Audits can help find areas that need to be changed to save energy and water.

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.

TEST OUT YOUR WATERSENSE!

- Check out this fun game to learn about saving water while avoiding the water-wasting monsters! [Click to play WaterSense Game](#)

Reach out to the Energy Water Management Team for ideas on how to improve your classroom's efficiency: EnergyWaterTeam@Charlottesville.gov

Classroom Energy Audit



What uses electricity in your classroom? _____

What do you think uses the most electricity? _____

How many lights are in your classroom? _____

Do you turn the lights off when you leave the room or do they turn off on own? (YES / NO)

Do you have a reminder to turn off the lights? (YES / NO)

If not, design one as a class!



How many computers, laptops, or TV displays do you count in your classroom? _____

Are these devices turned off when no one is using them? (YES / NO)

Are these devices unplugged when no one is using them? (YES / NO)

Why is this important to do?

How many windows do you count in your classroom? _____

Do you feel cold air blowing around the window? (YES / NO)

(cold air would mean air from the outside is coming inside)



How many doors to the outside do you count in your classroom? _____

Do you feel cold air blowing around the door to the outside? (YES / NO)

(cold air would mean air from the outside is coming inside)

Do you have reminders to keep doors and windows to the outside closed when heating and cooling equipment is on? (YES / NO)

If not, design one as a class!

Why is it important to keep doors and windows to the outside closed? _____



Heat in your classroom is generated from natural gas.

Can you find where in your classroom the heat is coming? _____

Are the heating vents not blocked by anything? (YES / NO)

Why is this important to keep vents clear? _____

Once you have completed your class energy audit, what can your class do to save energy? _____

TYPES OF LIGHTBULBS

BEST for saving energy →  LED

 compact fluorescent (CFL)

WORST for saving energy →  incandescent

Classroom Water Audit



What uses water in your classroom? _____

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

How many students have a reusable water bottle with them in class? _____

How many students pledge to bring in their reusable water bottle every day? _____

Make a reminder to bring in your reusable water bottle!



Guess how much water your classroom's sink faucet uses in 1 minute? _____

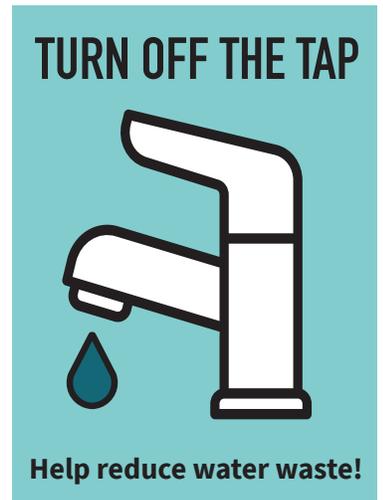
How much water does your faucet use in 1 minute? _____

Your teacher will help you measure this!

Is your sink faucet leaking? (YES / NO)

Do you have reminders to turn off the faucet when not in use? (YES / NO)

If not, design a reminder as a class!



Check out a toilet close to your classroom.

Is the toilet leaking water? (see if you can hear the toilet singing) (YES / NO)

Your teacher can show you how to check if the toilet is running!

Do you have a reminder to tell a teacher of any water leaks? (YES / NO)

If not, design a reminder as a class!



Do you have a plant in your classroom? (YES / NO)

If you do, water the plant with leftover water from your water bottle instead of pouring it down the drain.

Once you have completed your class water audit, what can your class do to save water?

DOES YOUR TOILET HAVE A SILENT LEAK?

LEARN MORE AT WWW.EPA.GOV/WATERSENSE

1 Add a few drops of food coloring into your toilets tank and wait 10 minutes.

2 If the color shows up in the bowl, you have a leak that can probably be fixed by replacing a worn toilet flapper.

3 Don't forget to flush afterwards to remove the dye!