

**ENERGY & CLIMATE ACTION AUDIT**

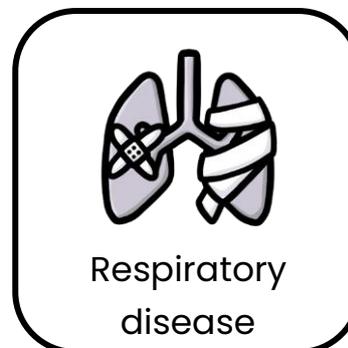
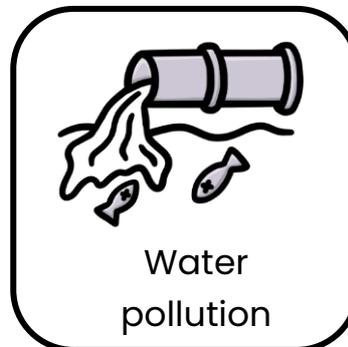
Name \_\_\_\_\_ Grade: \_\_\_\_\_

**INTRODUCTION****I wonder...****what are the ways we use energy in the school?****Switch on the lights.**

Where does the electricity come from that makes the light work?

Electricity in South Africa mostly comes from burning coal. This is a very environmentally unfriendly practice. Some of the negatives it causes

include:



These all add to global warming and Climate change.

**ACTIVITY****How energy efficient is your school?**

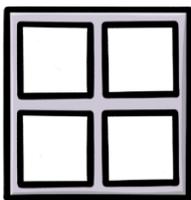
Saving electricity is not only good for the environment it can also save your school money.

- Does your school try its best to save electricity?

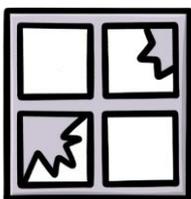
Let us do an energy audit to look at the way we use electricity in our classroom.

**Safety First**

- Please treat all equipment as live.
- Do not touch hot/heated objects.

**Classroom Energy Audit****Wonderful Windows**

How many windows are in your classroom?

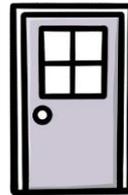


How many of these are broken windows?

### Shut the door!

Does your classroom door close properly? Put a tick next to the correct picture.






### Time to think!

A broken window or open door means air can get in or out of the classroom. What does this mean for energy use, it can be good and bad? (Hint - think heaters or air conditioners)?

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### Let there be light.

- How many lightbulbs does your classroom have? Write the answer in the box.




- How many are energy saving bulbs and how many are normal light bulbs? Write the number in the box.




Normal




Energy saving

**Time to think!**

Energy saving lights can use 75% less electricity than regular bulbs. How can you reduce electricity usage in the classroom using just light bulbs?

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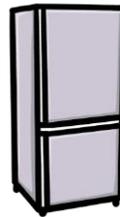
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**Ace the Appliances**

Place a tick in the box if your classroom has the following appliances.



Heater



Fridge



Ceiling fan



Kettle



Laptop or computer



Standing fan

**Time to think!**

How can these appliances affect your electricity use? Which ones do you really need?

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**ACTIVITY****Your impact on energy usage.**

We've had a look at your school, but each person is responsible for their own energy usage.

**To do:**

1. Write down five activities that you have done today that use electricity.
2. How long did you do the activity for? Use the scoring system to work out the impact.
3. Was there a different way to complete the activity without using electricity?
4. Fill in the table below (*An example has been given in the table.*)

**Scoring system**

<b>Length of Activity</b>	<b>Usage</b>	<b>Score</b>
Less than 10 minutes	Low	1
11 minutes – 1 hour	Medium	2
Over 1 hour	High	3

## Energy usage worksheet

Activity	Duration	Score
<i>Worked on the computer</i>	<i>55 minutes</i>	2
<b>Total:</b>		

### What does your score mean?

<b>1 – 5 points</b>	Some definite work needed.
<b>6 – 10 points</b>	Work in progress.
<b>11 – 15 points</b>	Fabulous!

***ACTION PLANNING***

**Commit to Change**

We can all do something to help reduce electricity usage. With a friend, create a poster with at least five things we can all do to reduce energy usage.

A large, empty rectangular box with a black border, intended for students to create a poster about reducing energy usage. The box is currently blank.