Welcome to online learning with Mrs Dower

Share your work with me on Seesaw

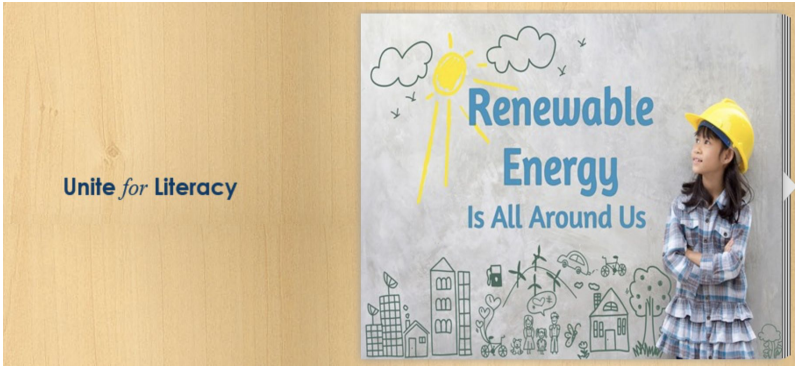
Term 3 Week 4

Wednesday

Today's Focus

Today We are going to be looking at a text called Renewable energy is all around us. You can find it by typing in this link. https://www.uniteforliteracy.com/mystic/stem/book?BookId=1602 You can choose to have the book read to you or read it yourself. If you can find an adult or sibling to read to that would be great!

If you do not have a device a copy of this text can be found at the end of this document. Enjoy!



Term 3 Week 4

Thursday

Today's Focus

If you have access to a device You can watch the video on the next page that will look at renewable and non-renewable sources of energy. If you do not have a device you can look back at last week's text to remind you what we have learned so far. This will help you to complete today's activity.

Today's activity has 3 empty columns.

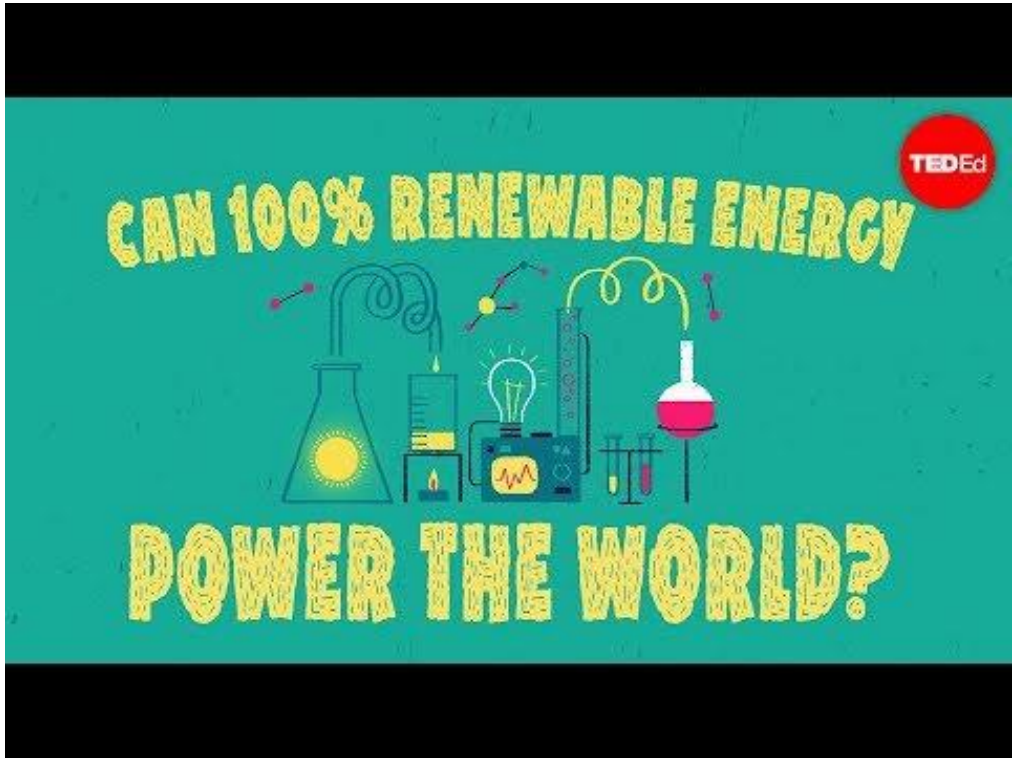
Column one - decide whether you think that that source of energy is renewable or non-renewable.

Column 2 - write down something good about the resource. For example is it cheap, is there a lot of it available, is it safe for the planet?

Column three - Here you will need to think of some bad things about that resource. For example, does it pollute the planet, is it expensive, are we running out of it?

Video link Can 100% renewable energy power the world?

https://www.youtube.com/watch?v=RnvCbQuYeIM



Renewable and Non-Renewable Resources

Directions:
Label each resource as renewable or non-renewable. List an advantage and disadvantage of each resource.

Resource	**Renewable vs Non-Renewable**	**Advantage** (something good)	**Disadvantage** (something bad)
Coal			
Hydroelectric			
Wind			
Oil			
Geothermal			
Solar			
Natural Gas			

Term 3 Week 4

Friday

Today's Focus

You have been hired to decide which energy resource would best fit a town that would like to change over to renewable energy. Read about the town and use your knowledge of the advantages and disadvantages of the different renewable resources to help make your selection. Explain your choice and draw a design of the resource you choose. Please label your design.

Springland

Springland weather has frequent rainstorms with heavy winds. There is a narrow stream that runs through the center of town and leads to a small lake. The land consists of rolling hills and open prairies. The townspeople are ready to switch to renewable energy.

Renewable Resource Recommendation

_____

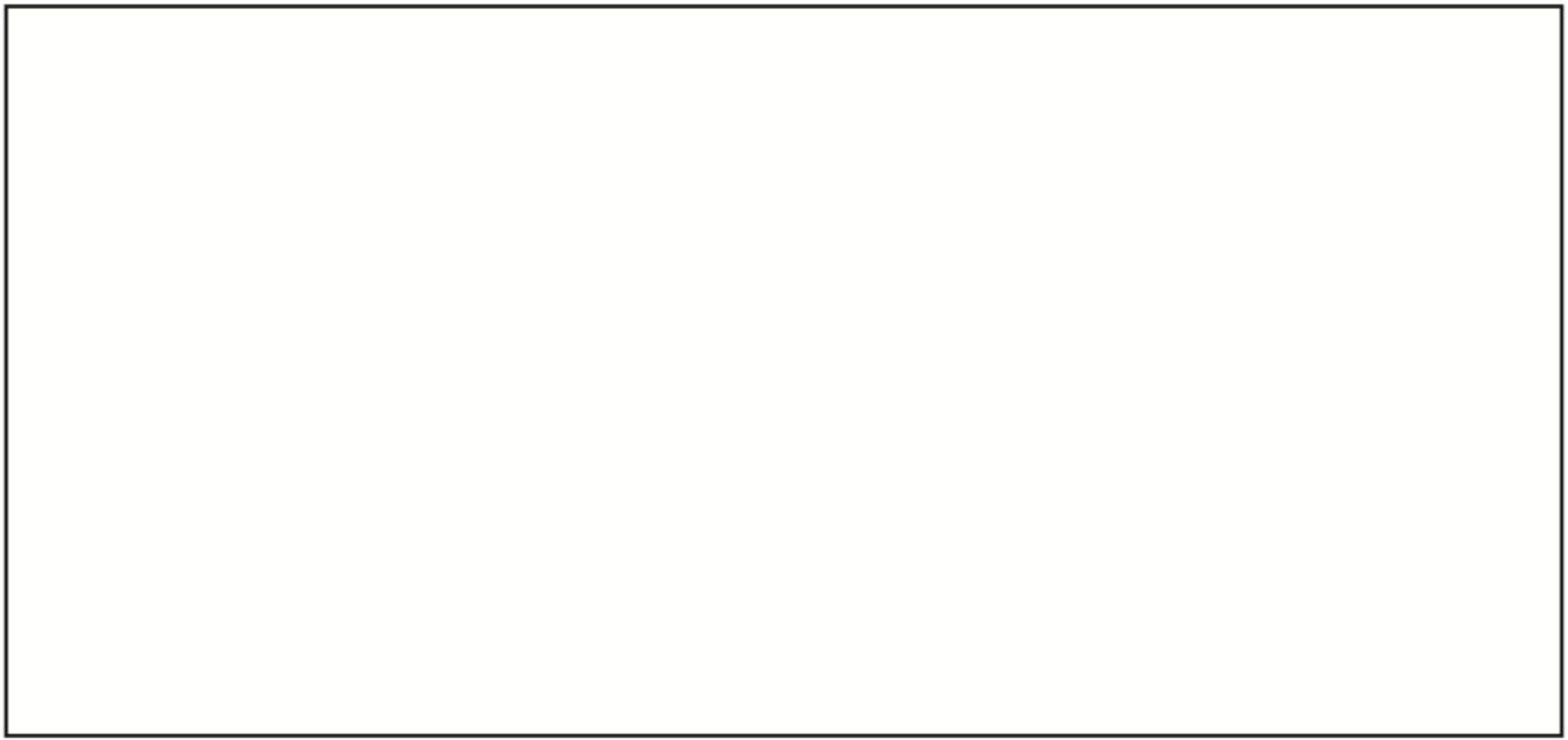
Explanation

_____

_____

_____

Design Illustration



Have a great weekend!

Term 3 Week 5

Wednesday

Today's Focus

Today We are going to be looking at a text called Let's be energy Friendly. You can find it by typing in this link.

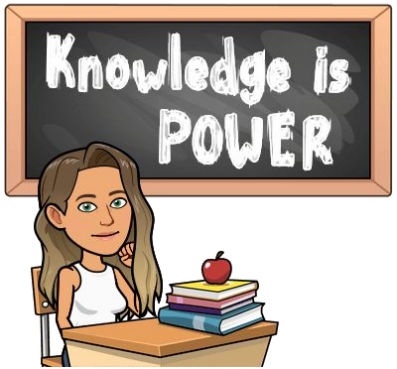
https://www.uniteforliteracy.com/unite/technology/book?BookID=1323

You can choose to have the book read to you or you can read it yourself. If you can find an adult or sibling to read to that would be great! If you do not have a device a copy of this text can be found at the end of this document. Enjoy!

Term 3 Week 5

Thursday

Today's Focus



Today you will be learning about your carbon footprint! Your task is to read through the following information. Then, if you have access to a device you will be able to find out what your carbon footprint is! Just type in the link!

https://kids.lovetoknow.com/kids-activities/carbon-footprint-calculator-kids

Reducing Your Carbon Footprint

A guide to understanding your carbon footprint and what you can do to reduce it.

Read through the information to learn all about your carbon footprint

What Is Your Carbon Footprint?

Many of your daily activities require energy.

Just think about your morning routine - what is it?

I like toast for breakfast with a glass of fresh orange juice. Then, my Mum drives me to school.

My alarm clock rings at 7am. I get up and take a shower, then brush my teeth. I have a new electric toothbrush!

What Is Your Carbon Footprint?

Even these simple things we take for granted require energy.

Toast - made with an electric toaster.

Orange juice - made with oranges grown in Spain.

Car - runs on fossil fuel.

Alarm clock - uses batteries.

Shower - gas used to heat the water.

Electric toothbrush - uses electricity to charge up.

The energy needed for these simple routines produces a gas called carbon dioxide. This is known as a 'greenhouse' gas because it traps heat, causing the Earth to warm up. The more carbon dioxide is released into the atmosphere, the worse it is for the environment.

Think! What do you eat for breakfast and how do you get to school?

What Is Your Carbon Footprint?

The amount of carbon you produce as a result of your daily activities is known as your **carbon footprint**.

Everything we do has an impact on the environment.

If we made small changes to our daily routine, we could **reduce** our **carbon footprint** and have a **positive** effect on the environment.

What small changes could you make?

Travel

Can you be an active traveller?

How would each of these suggestions reduce your carbon footprint?

Take public transport!
If more people use buses and trains, they use less fuel per person, meaning less carbon dioxide produced!

Go for a walk!
You will feel better for the fresh air and get some exercise at the same time.

Does your school have bike or scooter racks?
If so, use your own energy to get to school and reduce your **carbon footprint**!

Do you really need to drive?
If the answer is yes, try car sharing. That way you can still reduce the amount of carbon dioxide you produce.

What can you do?

Home

Can you be energy efficient at home? How could you change your habits to reduce your **carbon footprint**?

Unplug!
Leaving appliances on standby continues to use electricity. If you don't need it, switch it off!

Switch off!
Switch off lights when you leave a room. A simple way to stop wasting electricity.

Energy-saving lightbulbs!
Invest in energy-saving lightbulbs around your house. They last 15 times longer and use 80% less energy than other lightbulbs.
That's saving money as well as energy!

Cool water washing!
Set your dishwasher or washing machine to a cooler setting. 90% of the energy needed goes towards heating the water.

Reduce, Reuse, Recycle

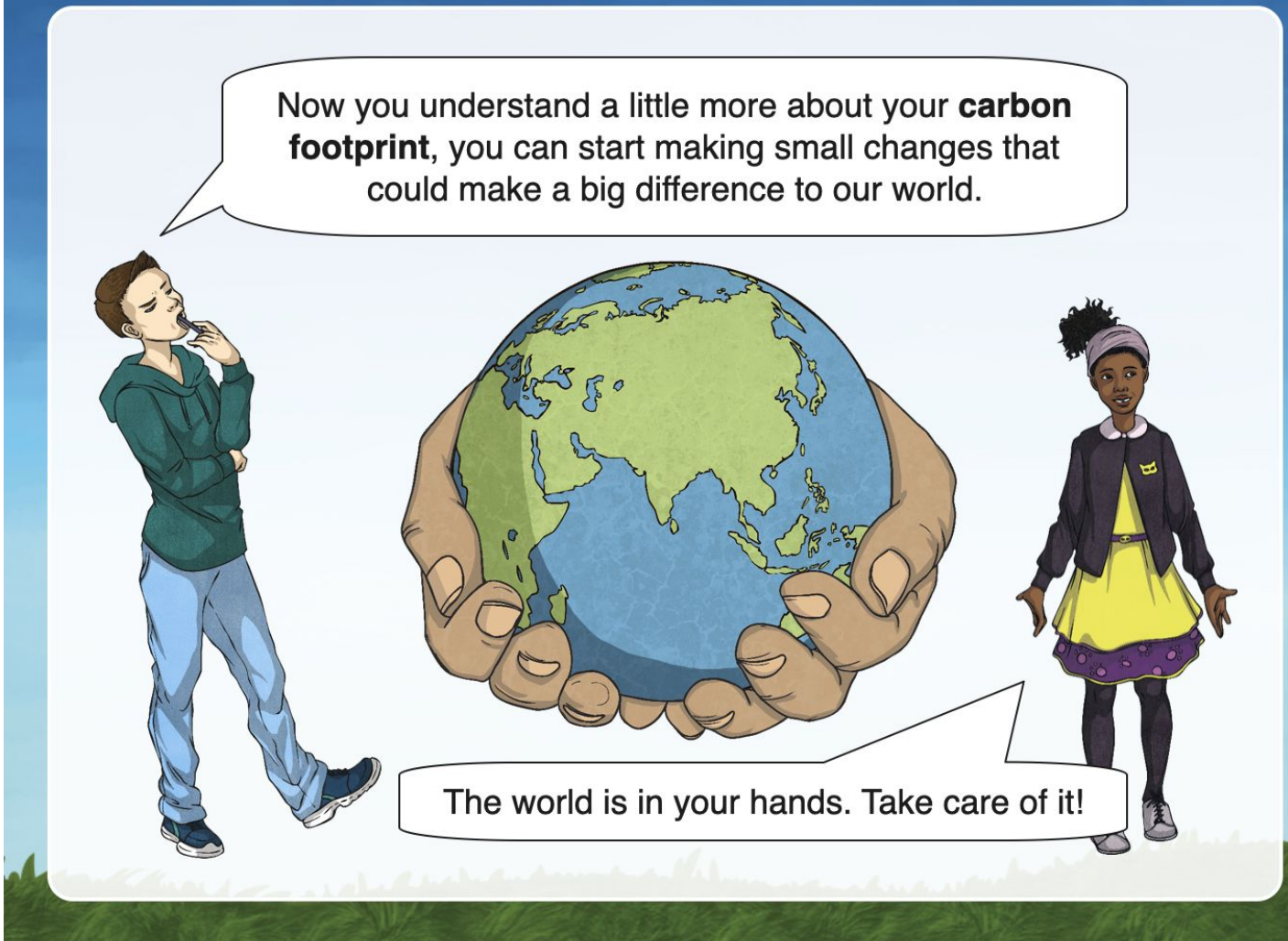
If you produce less waste, you can reduce your **carbon footprint**. You can become an eco warrior at home and at school, encouraging people to **Red** **Reuse** and

Reduce!
Reduce the rubbish you create. Do you need all that packaging? Can you use that paper again? Reducing your waste means saving money too. Can you think why?

Compost!
Even food scraps can be recycled. Compost them instead of throwing away. Create a wormery to see how food waste is broken down.

Reuse!
Before throwing something away, consider if it can be reused. Plastic bags, paper, cardboard, even clothes can all be reused.
You could organise a uniform 'Swap Shop' at school.
You could arrange a junk modelling competition with your friends.

Recycle!
If you can't reuse it, recycle it. Sort your waste to see what can be recycled. Recycling materials uses less energy than creating them.


Now you understand a little more about your **carbon footprint**, you can start making small changes that could make a big difference to our world.
The world is in your hands. Take care of it!

Term 3 Week 5

Friday

Today's Focus

We have been reading a lot of new words lately! Today's task is to find the meaning of some of those words! Using a dictionary or the internet look for the definitions of the following 6 words. You will then need to use them in a sentence and draw a picture of them.

Grow your Vocabulary!

Find the definition of the word in the dictionary. Write the definition, write your own sentence relevant to the topic and draw a picture to represent the word.

Definition: _____

_____

_____

Sentence: _____

_____

_____

Picture:

Find the definition of the word in the dictionary. Write the definition, write your own sentence relevant to the topic and draw a picture to represent the word.

Definition: _____

_____

_____

Sentence: _____

_____

_____

Picture:

Find the definition of the word in the dictionary. Write the definition, write your own sentence relevant to the topic and draw a picture to represent the word.

Definition: _____

_____

_____

Sentence: _____

_____

_____

Picture:

Find the definition of the word in the dictionary. Write the definition, write your own sentence relevant to the topic and draw a picture to represent the word.

Definition: _____

_____

_____

Sentence: _____

_____

_____

Picture:

Find the definition of the word in the dictionary. Write the definition, write your own sentence relevant to the topic and draw a picture to represent the word.

Definition: _____

_____

_____

Sentence: _____

_____

_____

Picture:

Find the definition of the word in the dictionary. Write the definition, write your own sentence relevant to the topic and draw a picture to represent the word.

Definition: _____

_____

_____

Sentence: _____

_____

_____

Picture:

Have a great weekend!

Week 4

Unite *for* Literacy

Energy is what makes things work, move, and grow. All living things need energy. Plants use energy from the sun to make their own food. People and animals must eat to get energy. Without food, you could not play or learn!

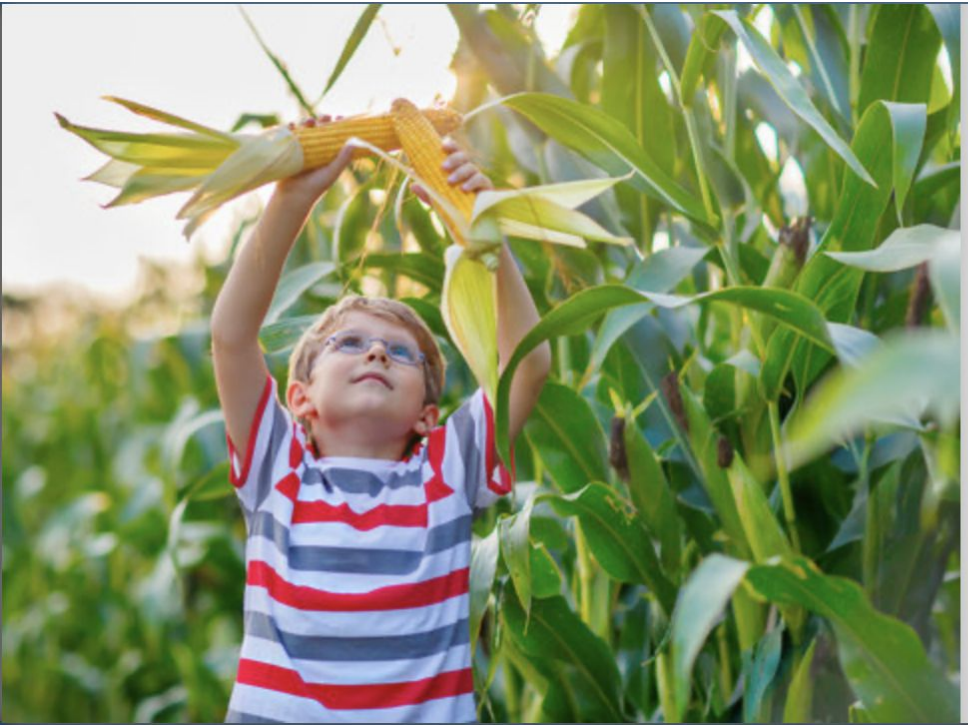
Things that are not alive get energy in other ways. Toasters, televisions, cell phones, and other machines use electricity. We plug them in or charge their batteries to make them work. We use lots of electricity, so we need ways to make it.

We use energy from coal, oil, and gas to make electricity. But using these resources makes pollution, and someday we will use them all up. Renewable energy sources will not run out. They are clean and safe. Let's learn more!

One type of renewable energy is solar energy. This is the heat and light from the sun. Sunlight feels good and helps plants grow. But that is not all. We can use solar panels and other tools to turn sunlight into electricity.

Wind keeps you cool on hot days. But did you know it is a renewable energy source? On wind farms, wind blows the long blades of machines called turbines. Each turbine spins a generator. The generators make electricity.

We use water to drink, cook, and clean. Water is also a source of renewable energy. Like wind, flowing water can turn a turbine and spin a generator to make electricity. This dam is making electricity as the water moves through it.



Biomass is another renewable energy source. It comes from plants and animal waste. Biomass includes corn, trash, and even cow poop! We can get oils and gases from biomass to make electricity and fuel our cars.

Earth is hot on the inside. This heat is called geothermal energy. It is renewable, too. We can use it to heat our homes and make electricity. Geothermal energy is also what makes volcanoes erupt!

Earth’s heat is right beneath our feet. Sunlight, wind, water, plants, and animals are all around us. These sources of renewable energy will not run out. We can use them to power our homes and towns while keeping our planet healthy!

Week 5

Whether it is hot or cold outside, we all use energy to keep our homes comfortable. My family is learning to use our energy smartly, so there will be enough for our whole neighborhood.

When days are hot, every house needs cooling at the same time. Dad keeps the thermostat set at 78 degrees so the air conditioner will run less often.

I help by keeping doors shut and lights off when no one is using them. We also wait to run our dishwasher until after dark.

When days are cold, Mum keeps the thermostat set at 22 degrees so the heater will run less often.

Since the house is cooler, I wear a long-sleeve shirt and give one to my sister. We also open the blinds so the sun can help warm our house.

All year long, Mum and Dad make sure we do laundry in an energy-smart way. They start by using cold water to wash the clothes.

I help by hanging some of the clothes to dry. We also use our towels a few times before washing so we will have fewer loads of laundry.

During the hottest and coldest times of the year, it is extra important to be smart about using energy. Those are the times when electricity is needed the most.

Any time of the year, families can practice using only the electricity they need. That is not only smart, it's the way to be an energy-friendly neighbor!