Name:
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## **Energy: Our future primary resource?**

## Thinking questions about the topic:

•What do you think your total energy consumption has been since you woke up this morning to when you got to school? Write down all the things you've used that required energy (ex. alarm clock, transportation, etc.)

How do you think the electrical energy you've used today was produced?

<u>Canada + Eı</u>	nergy Use = Waste?	
	ner the users apita) in the world.	of
WHY? List the	4 reasons why Canada can't help but being an energy wasting country:	
<u>~</u> ;	orthern climate = temperatures	
	lation over large = energy for	
Ø Ø Have advan	ced economy = great deal of energy use	
Ø Energy rela	tively here = wasteful	
How is Ener	rgy Used in Canada?	
The unit used t	to measure energy is?	
But what units	do the energy sector use?	
What percentage	e of Canada's total energy supply goes towards consumer and business use	?
Canada + Er	——————————————————————————————————————	
The 2 categorie	es that energy are broken up into are:	
	<u>Example</u>	
Production power	of Electrical Power: What provinces produces the following type of electrical r:	I
i) Coal	!	
	ro:	
iii) Nucl	ear:	

	Name:			
Coal				
The 3 types of coal are: 1)	2)	3)		
How is coal formed?:				
300 million years ago	100 million years ago	Today		
Does Canada use the majority of its coal?				
Why?	Where?			
How do Canadian use coal?				
Oil and Gas				
What creates oil and gas?				
Where is it located?				
Name and differentiate between the 2 types of wells used for extracting oil and gas.				
Is Canada a major player in the worldwide oil industry?				
How do you know?				
Electricity				
•Most electrical power is produced in turbines,				
• are turned by mechanical energy created through:				
-				

	Name:
Electric Thermal Generation	
•	& geothermal electrical generation all works o
the same principal	
•Heat in produces	, which turns the turbine blades, rotating the
turbine shaft	
Hydroelectricity	
•Electricity is produced through the	energy of the water down
through theand turn	ing the turbine blades.
What is the name of the closest hydro-	- power generating station?:
Wind Energy •Electrical power can also be produced	d by wind energy.
•Wind turns turbine, whi	ich then turns the turbine shaft, creating electricity in th