

### In this unit, students will:

- use appropriate words to describe wind.
- learn that wind and moving water are renewable energy and can be sources of energy for electricity.
- learn the mechanisms of windmills and hydroelectric dams.
- learn the advantages and disadvantages of hydroelectric power.

### Look at the descriptions. Then use the appropriate words to describe the wind in the pictures.

smoke rises straight upward Calm:

Gentle breeze: leaves move, flags flap

hard to walk against Gale:

**Strong breeze:** large branches move

trees uprooted Storm:

1.





3.



4.

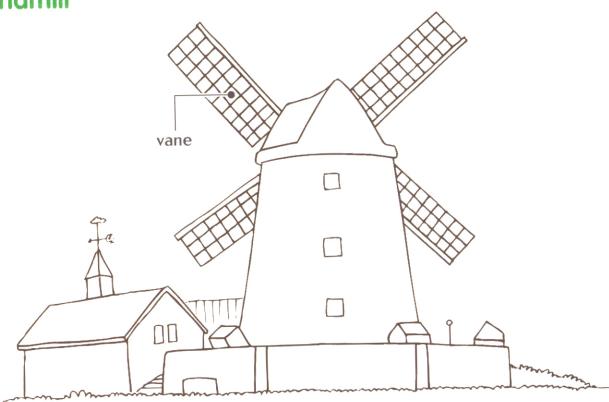




### B. Colour the windmill. Then fill in the blanks to complete the sentences.

energy windmill shaft renewable vanes electricity

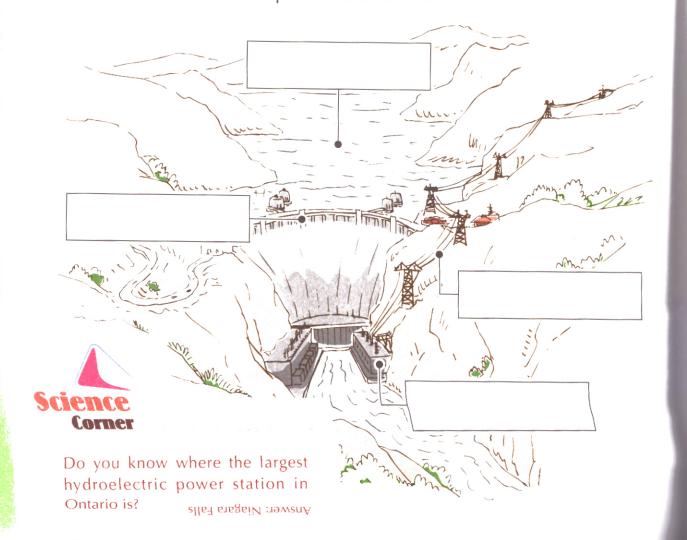
### Windmill



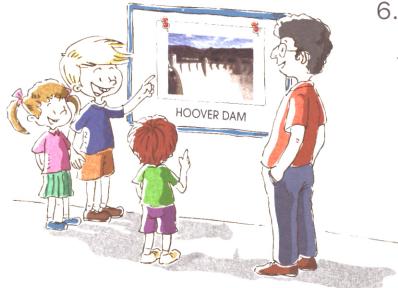
- 1. We need \_\_\_\_\_ to do many jobs.
- 2. Wind is a \_\_\_\_\_\_ source of energy. This means that the supply of it can be replaced.
- 3. Wind pushes the vanes of a \_\_\_\_\_.
- 4. The \_\_\_\_\_ of a windmill turn a shaft.
- 5. Machines are attached to the \_\_\_\_\_ to do work.
- 6. Modern windmills are designed to convert the energy of the wind into \_\_\_\_\_\_.

### C. Match the parts of the hydroelectric dam. Then label the diagram.

# Hydroelectric Dam ightharpoonup power station reservoir dam power lines ightharpoonup dam p



- D. Read what the people say about hydroelectric dams. Write either "good" or "bad" on the lines.
- 1. Mr. Green: "It's a clean source of energy no pollution!"
- 2. Mrs. Bowman: "It's a renewable form of energy...it never runs out."
- 3. Sam: "Don't you know that the dam could cause flooding?"
- 4. Kevin: "Some plants and animal homes are destroyed when a dam is being built."
- 5. It's wonderful. The dam attracts fish and birds.



Dams never produce toxic wastes as well.



# The Power of **Moving Water**

Use a garden hose in your backyard to see the power of moving water.

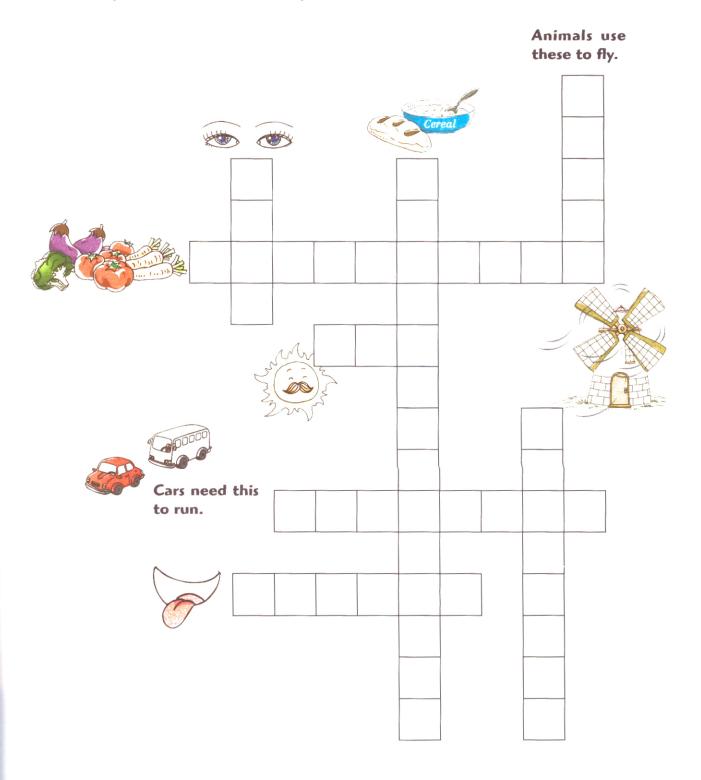
Hold the garden hose with one hand and have your other hand ready at the

	Turn the tap a bit and observe the water out of the hose.			
	Observation:			
2.	Turn the tap a bit more to see changes			
۷.	in water flow.	BILLING		
	Observation:			
3.	Turn the tap fully and see.			
	Observation:	Now, can you see the power of moving water?		
(	Abedi Mot			
Are you able to				

Are you able to			
		use appropriate words to describe wind?	
		tell that wind and moving water are renewable energy and can be sources of energy for electricity?	
		ow the mechanisms of windmills and hydroelectric dams?	
		tell the advantages and disadvantages of hydroelectric power?	

### Midway Review

### A. Complete the crossword puzzle.



eyes gasoline wings grain products windmill tongue vegetables sun

### Check ✓ the correct answers. В.

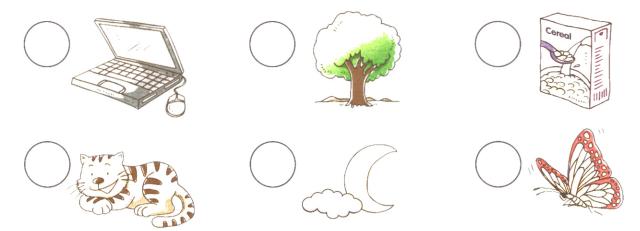
### The five senses:



## 2. Grain products:



### 3. Living things:



### 4. Things that living things need:



5.	The animals that move in the same way as a kangaroo:		
	a panda	a frog	
	a grasshopper	a bear	
6.	The senses that you can use to find out about snow:		
	sight	touch	
	smell	hearing	
7.	. A hydroelectric dam needs this to run:		
	sun	water	The state of the s
	wind	gas	WW.
8.	Energy givers:		
	wind 9	electr	icity
	rainbow	car 🎉	
	food	sun §	My Og

C. Fill in the missing letters to complete the sense words. Then complete the poems by writing the correct sense words.

1.



2



3



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\_\_\_as\_\_\_

s\_\_\_ |

4



t C

5.



h\_\_\_\_ i\_\_\_g

6. Is it mashed potatoes,Porridge or paste?I know it byMy sense of \_\_\_\_\_\_\_.



7. The band is playing,Crowds are cheering.I know it byMy sense of \_\_\_\_\_\_\_.

