

The Wind is Energy Science Notebook



Name



Putting Energy into Education

NEED Project PO Box 10101 Manassas, VA 20108 1-800-875-5029 www.NEED.org

The WIND IS ENERGY was developed by the NEED Project in cooperation with the KidWind Project, with funding and technical support from the American Wind Association.



Weather Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

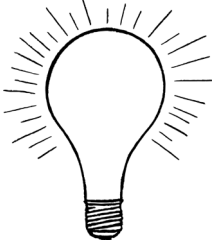
Date _____

Question: What evidence is there that the wind is blowing?

Observe the wind. Draw pictures of evidence that the wind is blowing.


Question: How do we use energy?

Energy is light.




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Energy is sound.




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Energy is heat.



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Energy is motion and growth.



--

Energy runs machines.



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Date _____

Question: What will happen when wind blows into the windmill?

I predict _____

because _____

Draw a picture and use words to explain what happened.

Date _____

Wind Can Do Work

1. Make your windmill.
2. Draw a diagram of the windmill below and label the parts.

Windmill Diagram

Date _____

Question: How many paperclips can the wind lift to the top of the shaft?

I predict _____

Trial	Number of Paperclips	Lifted to the top? (Yes or No)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Date _____

Question:

Weightlifter Turbine Diagram

Blade Design Ideas

Draw some ideas you have for what the blades could look like.

My group's blade design will be...

Date _____

Question:

I predict _____

Data:

Data and Observations Continued:

Date _____

Question: What tools are used to measure the wind?

Draw diagrams of the wind measuring tools you will be using. Label the name of each one and tell what it measures.

Date _____

Question: Does the wind blow the same speed in different locations?

I predict _____

because _____

What direction is the wind blowing from?

Date _____

Question: Does the wind blow the same speed in different locations?

Location	Speed

Date _____

What Are You Wondering About?

After learning something new, scientists often have even more questions that they still want to find the answers to.

- What questions about wind do you still have?
- How can you find the answers to your questions?

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