

Date:	Classwork:	Homework:
<p><b>Monday/ Tuesday</b> 10-10/10-11 Block</p> <p><i>MS-ESS2-5</i> <i>MS-Ess3-5</i> <i>MS-ETS1-1</i></p>	<p><b>Focus Questions:</b> How can wind be used as an alternative energy source? What features of a wind turbine are most important in creating lift?</p> <p><b>Weather Project Packets-Temperature Graphs</b></p> <ul style="list-style-type: none"> <li>● <b>Weather Data Collection Day 4</b> <ul style="list-style-type: none"> <li>○ <a href="http://wunderground.com">wunderground.com</a></li> <li>○ <a href="http://weather.com">weather.com</a></li> </ul> </li> </ul> <p>Science News-SOLAR</p> <p><b>Wind Turbine Project Part 2 &amp; 3</b></p>	<p><b>Finish any work not completed in class.</b></p>
<p><b>Wednesday/ Thursday</b> 10-12/10-13 Block</p> <p><i>MS-ESS2-5</i> <i>MS-Ess3-5</i> <i>MS-ETS1-1</i> <i>MS-ETS1-2</i> <i>MS-ETS1-3</i> <i>MS-ETS1-4</i></p>	<p><b>Focus Question:</b> How can wind be used as an alternative energy source? What features of a wind turbine are most important in creating lift?</p> <p><b>Weather Project Packets-Temperature Graphs</b></p> <ul style="list-style-type: none"> <li>● <b>Weather Data Collection Day 5</b> <ul style="list-style-type: none"> <li>○ <a href="http://wunderground.com">wunderground.com</a></li> <li>○ <a href="http://weather.com">weather.com</a></li> </ul> </li> </ul> <p><b>Wind Turbine Project Parts 3 &amp; 4</b></p>	<p><b>Finish any work not completed in class.</b></p>
<p><b>Friday</b> 10-14 All Classes</p> <p><i>MS-Ess3-5</i></p>	<p><b>Focus Questions:</b> How have global temperatures changed from both the recent past and distant past?</p> <p><b>Weather Project Packets-Temperature Graphs</b></p> <ul style="list-style-type: none"> <li>● <b>Weather Data Collection Day 6</b> <ul style="list-style-type: none"> <li>○ <a href="http://wunderground.com">wunderground.com</a></li> <li>○ <a href="http://weather.com">weather.com</a></li> </ul> </li> <li>● <b>Weather Project History of Temperature</b></li> </ul>	<p>Have a great weekend!</p>

## Wind Turbine Project:

### MS-ETS1-1.

Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions. (Success Criteria:)

- Building a wind turbine that turns in the wind
- Communicate the difference between the Horizontal and Vertical Axis Turbine using research sources to back it up.

### MS-ETS1-2.

Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem. (Success Criteria:)

- Test turbines according to problem constraints.
- Utilize reflection rubric to score own work.

### MS-ETS1-3.

Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success. (Success Criteria:)

- Changing variables to test whether a new design will be more successful.
- Explain why only one variable can be changed at a time in order to validate the effect of the change.

### MS-ETS1-4

Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved. (Success Criteria:)

- Comparing original model and model after single variable change.
- Observing the effectiveness of fellow classmates designs to help in determining which variable to change.

### MS-ESS3-5

Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century. (Success Criteria:)

- Read and interpret data from several types of graphs and evaluate their validity
- Read and evaluate articles to determine validity of claims of variables as causes of global warming