

8th Grade Science Agenda- Mrs. Sharon

Week of October 10, 2016

Day	In Class	HW/Reminders
Monday 10-10 <i>MS-ESS2-5</i> <i>MS-ESS3-5</i> <i>MS-ETS1-1</i>	Block Schedule-Odd Day (1, 3, 7) You need your laptop ALL week. Focus Question: How can wind be used as an alternative energy source? What features of a wind turbine are most important in creating lift? 1. Weather Data Collection www.weatherunderground.com www.weather.com 2. Wind Turbine STEM Project Finish Part 2 and 3	SPIRIT WEEK! Glow Day! Finish any work not completed in class
Tuesday 10-11	Block Schedule-Even Day (2, 4, 6) See Monday	Super Royal Day!
Wednesday 10-12 <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>	Block Schedule-Odd Day (1, 3, 7) Focus Question: How can wind be used as an alternative energy source? What features of a wind turbine are most important in creating lift? 1. Weather Data Collection www.weatherunderground.com www.weather.com 2. Wind Turbine STEM Project Finish Part 3 and 4	Pink Out!
Thursday 10-13	Block Schedule-Even Day (2, 4, 6) See Wednesday	Team Day!

<p>Friday 10-14</p> <p><i>MS-Ess3-5 RA Practices</i></p>	<p>See All Classes-Early Release</p> <p>Focus Questions: What is currently happening in the world of science?</p> <p>Weather Project Packets-Temperature Graphs</p> <ul style="list-style-type: none"> ● Weather Data Collection Day 6 <ul style="list-style-type: none"> ○ wunderground.com ○ weather.com ● Weather Project History of Temperature?? 	<p>Pirate (red and black) Day!</p> <p>Parade Tonight!</p> <p>Have a great weekend!</p>
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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

