Unit 3 Theme: Facing Adversity (Ecology and Wind)

Students will understand that energy from sunlight is changed to chemical energy in plants, transfers between living organisms, and that changing the environment may alter the amount of energy provided to living organisms

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|  | **I can statements:** | No | | | | | Kind of | | | | | Yes | | | |
| E1 | I can define and give examples of ecological relationships among organisms. | Pre-test | | | | |  | | | | |  | | | |
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| Post-test | | | | |  | | | | |  | | | |
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| E3 | I can trace the path of energy from the sun through photosynthesis and respiration to mechanical energy in an organism. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| W1 | I can create and compare my anemometer to a digital anemometer by measuring wind speed at various distances and graphing the results | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| W2 | I can determine the voltage produced by the wind turbine at various pitch angles and wind speeds | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| W3 | I can construct and test turbine blade shapes to produce the greatest amount of voltage (testing a variable) | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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