



Wind Turbine Challenge

 Community

Highlights: Students are challenged to design, build, and test a wind turbine using everyday materials.

Summary: This activity requires small groups of students to design, build and test a wind turbine of their own design. This project is designed as an extended project for AP Physics students. Testing will involve placing the turbine in front of a box fan and taking the required measurements with the provided tools. A couple of articles about the potential environmental impacts of wind turbines will be read by the students and thoughts will be posted to a discussion board.

Resource Types: Homework, Project

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TOPICS

Physics Topics:


Energy > Energy Concepts > Energy and Power; Energy > Energy Concepts > Energy Efficiency; Energy > Energy Forms > Thermal Energy; Energy > Energy Resources > Renewable Energy ; Energy > Energy Resources > Electrical Energy Generation; Energy > Energy Resource Issues; Energy > Energy Resource Issues > Energy and Land Use; Energy > Energy Resource Issues > Negative Impacts; Energy > Environmental Issues > Negative Environmental Impacts

Equity Topics:

Energy Efficiency; Energy and Land Use; Environmental Impacts

FILES

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SUBMISSION DETAILS

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