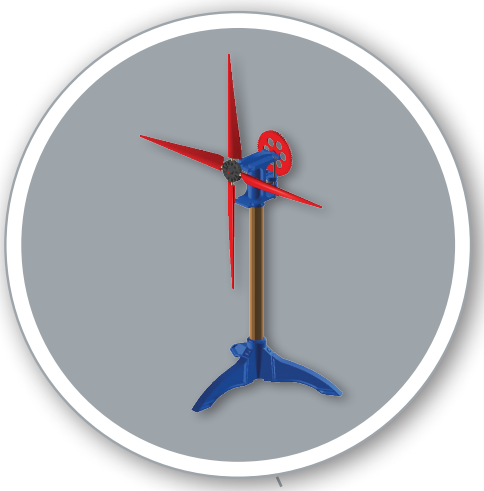
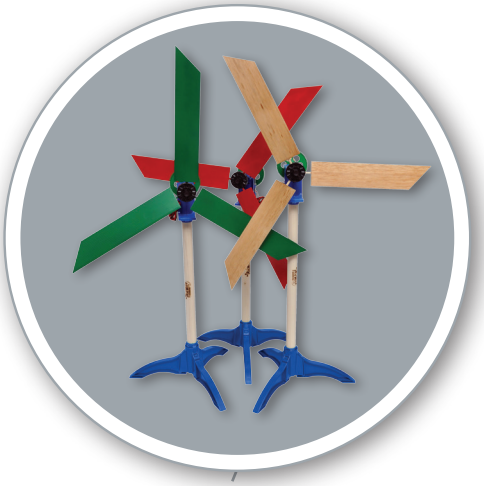
KIDWIND 2.0

A TURN-KEY **Wind Energy** CHALLENGE





VIRTUAL MODELS

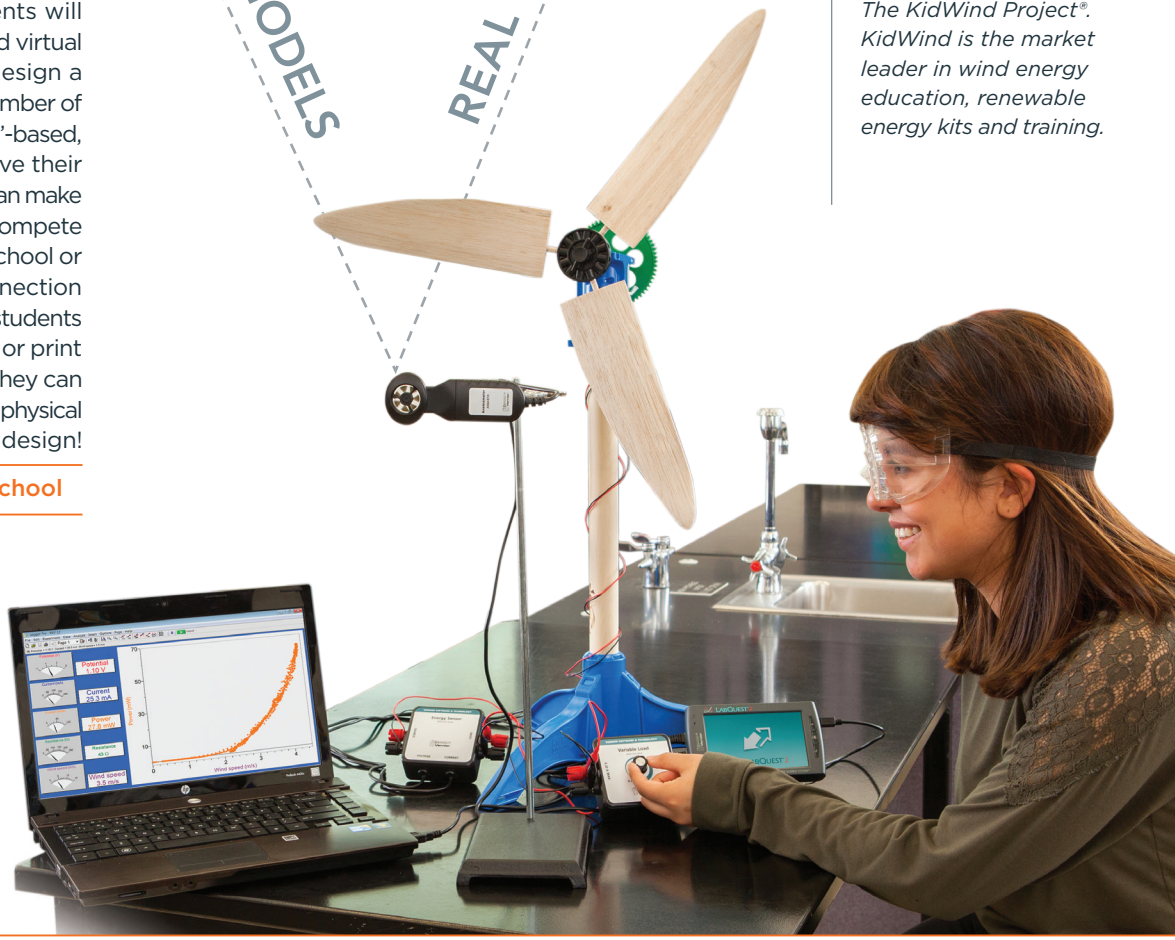
REAL RESULTS

KIDWIND 2.0 is a fully integrated applied STEM unit, focused primarily on wind turbine design and wind farm siting. Students will utilize an extensive suite of web-based virtual modeling and simulation tools to design a wind turbine and then place (site) a number of turbines on a wind farm. Purely "cloud"-based, students can access, analyze and save their designs anytime, anywhere. And they can make countless revisions, collaborate and compete throughout their district, 24/7, from school or home. Then, to ensure a strong connection between virtual and physical models, students can output a set of custom drawings or print their turbine blades on a 3D printer. They can then compare their virtual model with a physical model of their very own optimized design!

Level: Middle School and High School

KidWind PROJECT®

KidWind 2.0 is offered in partnership with The KidWind Project®. KidWind is the market leader in wind energy education, renewable energy kits and training.



WHITEBOX LEARNING
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ENVIRONMENTAL SCIENCE **WIND ENERGY** TURBINE BLADE DESIGN **WIND FARM SITING** 3D PRINTING

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KIDWIND 2.0

Turn-Key Applied STEM

All four letters of STEM are fused together in one fully integrated curriculum: Standards-based science, math and engineering content, 3D design and analysis tools, a game-like simulation (test), and all the custom plans and materials necessary to build the optimized design. Key concepts covered include Environmental Science, Wind Energy, Turbine Blade Design, Wind Farm Siting and 3D Printing.

Critical/Higher Order Thinking

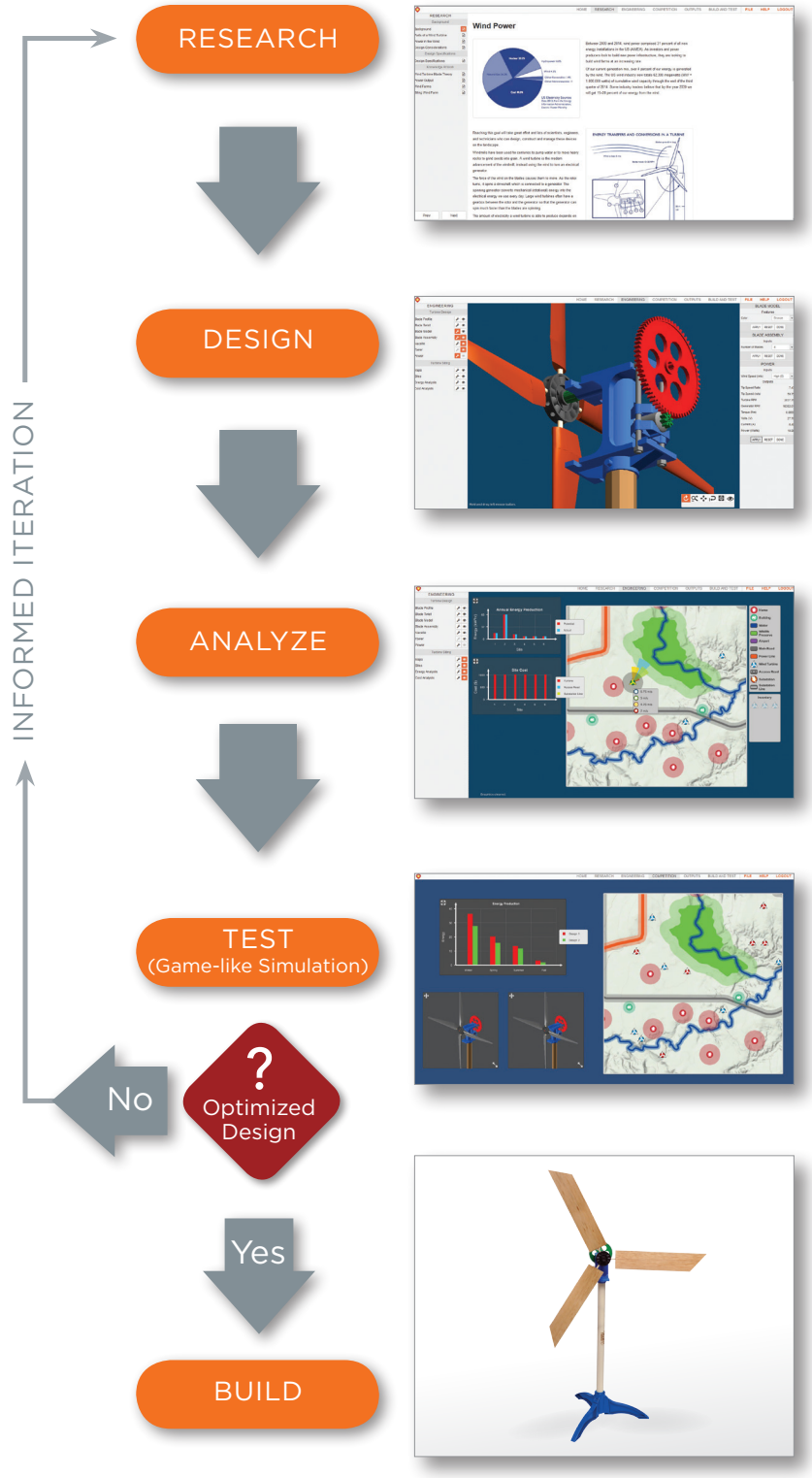
Students are empowered with the tools and information to ask and answer their own questions about their own designs. This results in a cycle of what we call "informed iteration" whereby each new or modified design yields a more intense focus on the underlying STEM that drives a successful design.

Teacher-Directed Curriculum

The Teacher Control Center® (TCC) provides 24/7 web-access to a powerful suite of management and monitoring tools. Monitor time on task, quiz scores and overall student and class progress and performance. Use the TCC to set up classes and applications, adjust the content (degree of difficulty) and create and assign new engineering design specifications as often as you like. These specifications can be distributed (with one click) throughout the entire school district to create districtwide virtual competitions, promoting continuity and consistency in STEM curriculum delivery—a great motivator for learning!

Web-Based

The entire learning system is available for teachers and students, 24/7, from wherever internet access is available. Students can engineer, collaborate and compete anytime, anywhere.



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To learn more about our products, see a demo or get a FREE TRIAL, visit us at:
www.whiteboxlearning.com

Take your virtual models to the next level

by building a physical (real) model of your optimized design. See our website for a full line of kits and parts.