

**Journal of Young Designers**  
**Issue 1, June 2016**

# **Designing Wind Turbine Blades**



***A Create It Lab Publication ©***



# Wind Turbine Blade Design

Issue 1, June 2016

• Introduction .....	2
• The Improved 6-blade Turbine	DEKA .....4
• First Roger: The Turning Turbine	Energy .....10
• Wind Turbines	Faze .....14
• Windmill Presentation	Glam Whales .....23
• The Powerful 3-blade, Homemade Wind Turbine	Green Mountain Breeze ..27
• Power In the Wind - Wind Turbines	Masters Of Physics .....31
• The Galactic Saucer	Power Patrol.....36
• Wind Turbine	Spinning Genies .....41
• Tobolco's Wind Turbines and Design Details	Toboloco .....46
• The Evolution of 3 Turbines	Turbin .....54
• Turbine Report	Whirly Polar Bears .....59
• The Best Model of Wind Turbines	Windig .....65
• Appendix A: Power In the Wind Rubric .....	72



# Introduction

Welcome to the first issue of the *Journal of Young Designers* (JoYD), a *Create It Lab* publication. The design process provides a framework for creativity and curriculum integration, which are critical parts of twenty first century education. Communicating design results is a key skill that is often overlooked in this process. This journal was created to provide motivation for young designers to communicate their results in a professional manner.

This issue of JoYD is dedicated to the designs of eighth grade students who participated in *Create It Lab's Power In the Wind* project. In this project, teams designed wind turbine blades to optimize both efficiency and aesthetic appeal. These students were part of [Nancy Kenyon's](#) science classes from the Phoenix team at Essex Middle School in Essex, Vermont. For those educators that are interested, the rubric for this project appears as Appendix A in this journal.







# Journal of Young Designers

## Issue 1, June 2016

### Wind Turbine Blade Design



A Create It Lab Publication ©