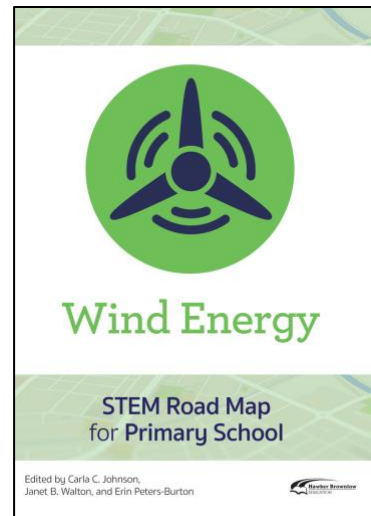


# Wind Energy: STEM Road Map for Primary School

Editor(s): Carla C. Johnson, Janet B. Walton & Erin Peters-Burton

<b>Date Available:</b>	January 2018
<b>ISBN:</b>	978 1 76056 597 8
<b>Code/SKU:</b>	NST5978
<b>RRP:</b>	\$35.95
<b>Format/Page No.:</b>	A4, 230 pages
<b>Year Level:</b>	F–4, Teachers and Administrators
<b>Focus Area:</b>	Activities and Exercises, Classroom Practice and Direct Instruction
<b>Key Learning Area:</b>	Cross-Curricular, Mathematics, Science, Technologies



## Summary

What if you could challenge your primary school students to develop an economical, eco-friendly wind farm? With this volume in the STEM Road Map Curriculum Series, you can!

*Wind Energy* outlines a journey that will steer your students toward authentic problem-solving while grounding them in integrated STEM disciplines. The series is designed to meet the growing need to infuse real-world learning into F–12 classrooms.

This book is an interdisciplinary module that uses project- and problem-based learning to investigate the interactions of Earth's systems, including geography, weather and wind. Your students will do the following:

- Study US geography, weather patterns, the economics of wind energy and issues about the use of wind turbines as an energy source.
- Learn how Earth's spheres – including the lithosphere, hydrosphere, atmosphere and biosphere – interact and how to observe and measure them.
- Be challenged to develop a wind farm. Working in teams, students will analyse the wind energy potential of a possible location. Then, they will create a proposal that considers the wind farm's cost, energy production and environmental impact.
- Deliver their presentations to garner support from the wind farm's surrounding community and potential investors.

The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards, the Common Core State Standards and the Framework for 21st Century Learning. In-depth and flexible, *Wind Energy* can be used as a whole unit of in part to meet the needs of districts, schools and teachers who are charting a course toward an integrated STEM approach.

## Other Resources

- *Transportation in the Future: STEM Road Map for Primary School* (NST5961)
- *Harnessing Solar Energy: STEM Road Map for Primary School* (NST5954)
- *Amusement Park of the Future: STEM Road Map for The Middle Years* (NST5923)
- *Construction Materials: STEM Road Map for the High School* (NST5938)