

Exploring Different Forms of Water Power

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Grades or Range: 9-12

This is lesson 7 of 8 of the educator's Unit: [Clean Water Power: Wind, Waves, and Moving Water](#)

Lesson 7: Exploring Different Forms of Water Power	
Lesson Preparation	<p>Decide which water power models you wish to make available to your students to make. Once Students have decided which they are building they will need one set of directions per group.</p> <ul style="list-style-type: none"> • Snap Circuits Green Alternative Energy Exploration Kit (Directions in Kit) • Kidwind Firefly, Directions • NEED Model Wave Generator Buoy, From Exploring Marine Hydrokinetics: Student guide- pg 45 & 46 • Air Buoy (Directions) • Large Trash can (To Test Bucket Buoy and NEED Model Wave Generator) • Student Lesson 7 worksheet • Large Whiteboards • Data Analysis and Whiteboard Poster Expectations sheet
Lesson Sequence	<p>Show students either a built example or image of each type of model they can potentially work with. Have students divide into groups of 2-4 who are interested in building the same type of model. Distribute the model specific directions for each group.</p> <p>Directions may have digital resources explaining how the system works, short video clips, lists of materials, and directions.</p> <p>Allow students to review the materials, make, and test their system.</p> <p>Once students have a functioning model they need to collect the teacher stamp as proof of operation on their individual analysis sheet.</p> <p>Students fill out the responses to the analysis questions individually.</p> <p>Once the individual analysis data sheets are completed, the students who built the same model get together as a group and put the information onto a</p>

large white board. Groups take turns presenting their whiteboard analysis to the rest of the class.

