



Community Boating Center STEM Sailing Modules

Sailing Through Science

Science, Technology, Engineering, Math (STEM) programs at CBC are a national model for US Sailing's "Reach" Initiative. Ten core Reach modules (and more!) use sailing as an engaging medium to foster an interest in STEM learning and career paths. Learn more at: 401-454-SAIL (7245) or www.communityboating.com



Measuring Wind

Wind Clues
Anemometers
Beaufort Scale



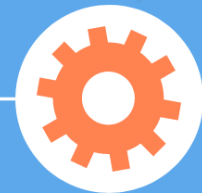
Buoyancy Testing

Sink or Float?
Building Clay Boats
Design Challenge



Sail Area/Perimeter

Sails as Triangles
Measuring Area
Pythagorean's Theorem



Simple Machines

Machines on Boats
Load & Effort
Purchase Systems



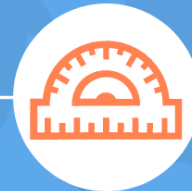
Water Quality Testing

Scientific Thinking
Water Testing
Comparing Data



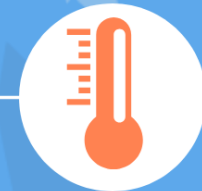
Marine Debris

Prior Knowledge?
Tides & Currents
Decomposition



Sailing Angles

Upwind Sailing
Measuring Tacks
Race Courses



Land/Sea Breezes

Temperature
NOAA Buoy Data
Surface Wind



Wind Power

Uses of Wind
Wind Turbines
Air Foils



Underwater Exploration

Underwater Science
Multi-beam Mapping
Building an ROV



Microscopic Mysteries

Using Microscopes
Collecting Samples
Recording Data



Student Elective

Inquiry-Based
Project-Based
Active Learning

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