

LENDING LIBRARY – SENSORS

MSU St. Andrews

List of Sensors - Subject and Activity

MSU St. Andrews offers a wide variety of Vernier sensors, probes, and apparatus for use in your classroom. Please refer to the table below for sensors and activities by subject.

Virtual workshops are available for teachers and students. To borrow equipment or schedule a workshop, please contact MSU St. Andrews Outreach Specialist, Dr. Tracy Zhang at zhangcu2@msu.edu.

Subject Matter	Sensors, Probes, and Apparatus	Suggested Activities
Biology	ColorimeterSpectroVis plus spectrophotometerElectrophoresis	More information coming soon!
Chemistry	 Conductivity probe pH sensor Stainless steel temperature probe Vernier Optical DO probe (dissolved O2) 	 Effect of temperature on solubility of a salt Properties of Solutions: Electrolytes and Non-Electrolytes Conductivity of Solutions: The Effect of Concentration
Earth Science	 CO2 gas sensor Gas pressure sensor Oxygen sensor PAR (Photosynthetically Active Radiation) sensor Surface temperature sensor Turbidity sensor Mirror set for optics expansion kit 	More information coming soon!
Environmental Science	 CO2 gas sensor Gas pressure sensor Oxygen sensor PAR (Photosynthetically Active Radiation) sensor Surface temperature sensor Turbidity sensor Mirror set for optics expansion kit 	More information coming soon!
Physics - Electronics	 Current probe Differential voltage probe Relative humidity sensor Voltage probe 	Elementary science: • Are all batteries the same? • Stacked batteries Middle school science: • Lemon "Juice" High school physics: • Series and parallel circuits

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Physics - Mechanics	 25-g accelerometer 3-D accelerometer Dual-range force sensor Force plate Low g accelerometer Motion detector 	More information coming soon!
Physics - Light	 Go direct rotary motion sensor Light sensor Magnetic field sensor Optical expansion kit Photogate Picket fence T1 light probe Ultra-pulley attachment UVB sensor Dynamics system encode kit with track (combination track optics bench) 	More information coming soon!