

GEMS-Net & URI-UCONN Navy STEM Coalition: Connecting Classroom Science to Engineering Research

Grade Level / Topic	Video	Task	Teacher Support	Standards Alignment
<p style="text-align: center;">3-5</p> <p style="text-align: center;">Programming Drones to Help Our Community</p>	URI Robotics Lab Video	URI Robotics Lab: Programming Drones to Help Our Community	URI Robotics Lab: Programming Drones to Help Our Community (Teacher Guide)	<p style="text-align: center;">Computer Science Teachers Association K-12 Standards (3-5)</p> <p style="text-align: center;">Algorithms & Programming</p> <p style="text-align: center;">1B-AP-08 1B-AP-10 1B-AP-11 1B-AP-15 1B-AP-17</p> <p style="text-align: center;">Data & Analysis</p> <p style="text-align: center;">1B-DA-06 1B-DA-07</p> <p style="text-align: center;">NGSS Engineering Design</p> <p style="text-align: center;">3-5-ETS1-1 3-5-ETS1-2</p>
<p style="text-align: center;">4</p> <p style="text-align: center;">Improving Efficiency in Electrical Systems</p>	URI Electronics Lab Video	URI Power Electronics Lab: Improving Efficiency in Electrical Systems	URI Power Electronics Lab: Improving Efficiency in Electrical Systems (Teacher Guide)	<p style="text-align: center;">NGSS Energy</p> <p style="text-align: center;">4-PS3-2 4-PS3-4</p> <p style="text-align: center;">NGSS Engineering Design</p> <p style="text-align: center;">3-5-ETS1-1 3-5-ETS1-3</p>
<p style="text-align: center;">5</p> <p style="text-align: center;">Using Properties of Materials to Solve Problems</p>	URI Dynamic Photo-Mechanics Lab Video	URI Dynamic Photo-Mechanics Lab: Underwater Implosion Research	URI Dynamic Photo-Mechanics Lab: Underwater Implosion Research (Teacher Guide)	<p style="text-align: center;">NGSS Matter and Its Interactions</p> <p style="text-align: center;">5-PS1-3</p> <p style="text-align: center;">NGSS Engineering Design</p> <p style="text-align: center;">3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3</p>

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GUIDING EDUCATION IN MATH AND SCIENCE NETWORK

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