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| ***Project Title*** | ***Brief Description*** | ***Classes (Level)*** | ***NGSS DCI -PE*** | **Room**  **#** |
| Rain Masters | Students will design drainage solution for a flooding basement  at the students’ school. | Physical Science & Algebra (MS) | MS-PS2  MS-ETS1-1-4 | 202 |
| Glider Challenge | Students will optimize wing design to maximize flight distance and decrease drift. | Earth and Physical Science (MS) | MS-PS2  MS-ETS1-1,2,3,4 | 205 |
| Fluid Power Comparison | One set of students will build and test a small-scale water turbine and the other set will build a small-scale wind turbine for comparison and testing. | Physical Science (MS) and Environmental  Science (HS) | HS-PS2  MS-ETS1-2 | 213 |
| The Effect of Greenhouse Design on O2  Production | Students will design the optimum greenhouse (with constraints) using spectrophotometer, O2 sensor, and other supplies. | Biology and Chemistry (HS) | HS-LS2  HS-PS3  HS-ETS1-1-4 | 218 |
| Runaway Ramp | Students will design a runaway truck ramp using motion sensors, Newton’s Laws, and math. | Pre-Calculus, Calculus, Physics (HS) | HS-PS2  HS-ETS1-1-4 | 220 |
| Beam Design | Students will design and construct a beam cross-section and calculate and measure deflection for a given loading. | Physics and Calculus (HS) | HS-PS2  HS-ETS1-1-4 | 222 |

**LEEDS Conference**

**Schedule of Project Presentations**

**University of Central Oklahoma**

**February 8, 2014**