

## TEE PLTW “Title of Course” Crosswalk

Local Course Curriculum / Units / Unit Descriptions	<b>Title of Standards:</b> Technology and Engineering <b>Date of Copyright:</b> 2013 <b>Organization:</b> Wisconsin Department of Public Instruction	<b>Title of Standards:</b> Wisconsin Standards for Science <b>Date of Copyright:</b> 1998 <b>Organization:</b> Wisconsin Department of Public Instruction
<b>Lesson 1.1 Mechanisms</b> 1. Why is it important to begin considering career paths during high school? 2. What career opportunities are available to match your specific interests? 3. What are some current applications of simple machines, gears, pulleys, and sprockets? 4. What are some strategies that can be used to make everyday mechanisms more efficient? 5. What are the trade-offs of mechanical advantage related to design? 6. Why must efficiency be calculated and understood during the design process?	<b>WCCTS.CD1.a.3.h:</b> Evaluate various occupations and career pathways and career goals based on personal strengths, aptitudes and passions. <b>WCCTS.CD1.b.2.e:</b> Define a goal and describe why it is important to have goals. <b>WCCTS.IMT3.a.10.h:</b> Integrate technological tools to efficiently create and manage correspondence in daily activity. <b>TEE.BB1.c.1.e:</b> Identify the types, functions and applications, of levers, linkages, cranks, cams, gears, pulleys & belts, sprockets & chains). <b>TEE.AC1.a.11.h:</b> The design of structures includes a number of requirements. <b>TEE.AC1.g.10.h:</b> Demonstrate proficiency in the practical application of the processes and materials (e.g., structural, electrical, mechanical, finish) appropriate to architectural design and construction. <b>TEE.MNF.1.b.5.h:</b> Apply methodical problem-solving models which include input, process, outcome and feedback components. <b>TEE.TR1.b.9.h:</b> Explain that all systems demand specific repair procedures in order to achieve highest performance and efficiency.	<b>A.12.5</b> Show how the ideas and themes of science can be used to make real-life decisions about careers, work places, life-styles, and use of resources. <b>G.12.1</b> Identify personal interests in science and technology, implications that these interests might have for future education, and decisions to be considered.