

## Standards and Competencies for Technological Systems (Course # 835)

	Begin-End Yr
Standard 1 - The student will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community and workplace through Technology Student Association.	2009 -
1.1 - Exhibit positive leadership skills.	2009 -
1.2 - Participate in the Technology Student Association (TSA) as an integral part of classroom instruction.	2009 -
1.3 - Evaluate school, community, and workplace situations by applying problem-solving and decision-making skills.	2009 -
1.4 - Demonstrate the ability to work professionally with others.	2009 -
1.5 - Identify personal, teamwork and leadership skills used in various occupations.	2009 -
Standard 2 - Safely use tools, materials, equipment and other technology resources.	2009 -
2.1 - Pass with 100% accuracy a written examination relating specifically to safety issues.	2009 -
2.2 - Pass with 100% accuracy a performance examination relating specifically to tools and equipment	2009 -
2.3 - Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.	2009 -
2.4 - List and explain the importance of safety guidelines for TSA competitive events.	2009 -
Standard 3 - Explore the key components of technological systems.	2009 -
3.1 - Identify the parts of a mechanical system and explain how they interact with each other	2009 -
3.2 - Understand and construct a simple electric circuit.	2009 -
3.3 - Identify and explore the basic principles involved in fluid power.	2009 -
Standard 4 - Learn to interact with technological systems.	2009 -
4.1 - Understand how technological systems work.	2009 -
4.2 - Read an owner manual for a given system and list proper maintenance procedures found in technical manuals.	2009 -
4.3 - Design and build a structural system.	2009 -
Standard 5 - Analyze how technological systems evolve.	2009 -
5.1 - Understand how to integrate technological systems.	2009 -
5.2 - Understand how a telegraph works.	2009 -
5.3 - Explain how to take an invention and innovate this product to meet the current trends	2009 -
Standard 6 - Explore and demonstrate systems adjustments.	2009 -
6.1 - Use tools, materials and machines to safely assemble and fabricate a transportation system according to specifications.	2009 -
6.2 - Predict the adjustments needed to obtain a specific, desired output	2009 -
Standard 7 - Understand how to analyze and correct a system failure.	2009 -
7.1 - Learn how the integrity of a system is equally dependent on all of the parts that make up the system	2009 -
7.2 - Explore the cause system failure and diagnose, troubleshoot, and propose corrective measures for malfunctioning systems.	2009 -
Standard 8 - Recognize and forecast Trends in the development of technological systems.	2009 -
8.1 - Select a common activity that requires the use of a technological system and predict how systems may change in the future with regard to trends.	2009 -
8.2 - Explain how the developmental trends of how specific technological systems have changed over time.	2009 -