

	<p>CAD 3 students will do a reverse engineering project where students disassemble an object, measure and recreate on inventor. Projects are entered in county wide competition</p> <p>Students will be able to choose from a list of projects when problem solving.</p> <p>Principles of Engineering designed their own cranes, marble mazes and boats to compare with rest of class</p> <p>Also add egg drop challenge this year. Huge success.</p> <p>Construction Systems will design and build individual interior floor plans of scaled model houses and include a roof.</p> <p>They will also develop and build a large scale framed cross-section of a residential house to use as a teaching aid in construction courses.</p> <p>Electronics buys and selects the kits that they want to build</p> <p>Adjust the materials Processing Class to correlate more closely with TECH WARS projects (sumo robots, CO₂ car long truck...)</p>	<p>dependent on project and classroom instructor</p> <p>Blask</p> <p>Blask</p> <p>Walker</p> <p>Walker</p> <p>Blask</p> <p>Walker</p>	<p>classroom performance, activities, and individual evaluation techniques</p> <p>eggs in tact</p>	<p>collaborate with co workers</p>
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<p>b. Students will improve performance in technology</p>	<p>Periodic progress reports and incorporate a variety of testing methods and evaluation (allow students to resubmit corrections of tests and drawings)</p> <p>Implement standardized final test for Principles of Engineering</p> <p>Career and Financial Management teacher noted a significant increase in student performance increased with more computer usage</p> <p>88% passing rate in CFM</p> <p>Continue with more visual aids and guest speakers</p> <p>Add participation as grade (to deter students skipping)</p>	<p>Classroom instructor</p> <p>Blask</p> <p>Blask</p> <p>Blask</p>		
<p>c. Collaborate with other departments in relevant subjects</p>	<p>CAD 1, 2, & 3 add more competition projects (Tech Wars)</p> <p>Coordinate specific activities with teachers in other subject areas.</p> <p>Music and Principles of Engineering will build set for musical. Construction Systems will build Cabaret stage for next year (with Vallas)</p> <p>CAD 1—Students completed the drawing portion of their Chemistry energy system research project in CAD</p>	<p>Mikulski</p> <p>Blask</p> <p>Mikulski</p>		

	<p>Completed and will do again</p> <p>Design and Drawing for Productions course works directly with the art department on a daily basis</p> <p>Successful collaboration and will continue to work together on styles & ideas</p> <p>Academy of Engineering and Architecture/Technology Club worked with science, art and technology to design and build bridges, robots, and a trebuchet for out of school competitions.</p> <p>Continue working with science department and add Science Olympiad. Mikulski and Blask are advisors for the Science Olympiad and Technology Clubs. We will collaborate activities for both contests and incorporate more into class projects. Science physics teachers are bringing Academy Students to Trebuchet contest to complete a physics lab.</p> <p>CAD 1, CAD 2, CAD 3 will have a passing rate of 92 percent.</p>	<p>Mikulski/Blask</p> <p>Mikulski</p>	<p>Student participation</p>	

NORTH TONAWANDA HIGH SCHOOL
School-Based Plans
2009-2010

DISTRICT FOCUS AREA: Learning and Achievement (Technology)
GOAL # 2 A. Promote knowledge and interest in technological programs
B. Have a safer working environment

OBJECTIVES/ OUTCOMES	ACTION PLANS/STRATEGIES	TIME/PERSON RESPONSIBLE	HOW ACTIONS WILL BE MONITORED, EVALUATED	PROFESSIONAL DEVELOPMENT
<p>A. Students will be provided the opportunities to be challenged in different facets of the math, science and technology fields and learn more about occupational prospects.</p>	<p>The Academy of Engineering and Architecture provides an expansion of learning outside of the classroom.</p> <p>The Academy students have attended interesting field trips, relevant to future fields of student (Power Vista, UB engineering and earthquake center, Calspan, MOOG, Falling Waters, Darwin Martin House and city of Buffalo architecture, and Habitat for Humanity)</p> <p>This year the seniors will finalize their portfolios and use them when applying for internships. It will contain examples of science labs, art CAD projects for college and work.</p> <p>Technology students will participate in extra-curricular events. Thirty students from technology classes will go to Operations Engineering Training Facility in Lake View, NY, sponsored by ECC for career experiences in construction.</p>	<p>Academy directors and advisory board</p> <p>Blask, Mikulski, Walker</p> <p>Blask</p> <p>Blask, Mikulski, Walker</p>	<p>Monthly meetings by advisory board evaluates student progress.</p>	<p>Future Advisory Board meeting will evaluate boards progress with SWOT analysis</p>

<p>b. Improvements will be made in classroom areas</p>	<p>The Academy, in conjunction with many technology students, has participated in regional competitions that incorporate many science fundamentals (Trebuchet Contest, NCCC and ECC Tech Wars, Kenneth Rybarczyk Model Bridge Contest, and Science Olympiads.</p> <p>Tech Prep is in the process of reorganization. There will be some form of Tech Wars after a meeting with ECC to confirm the details (approved and waiting for requested money and supplies).</p> <p>CAD 3 students will design, build, and program robots to complete a specific list of tasks. They will also compete against each other in teams. They will use new LEGO Mindstorms kits purchased through a Teacher Center grant.</p> <p>Begin the process to lengthen the Materials Processing course and the Manufacturing course to a full year. This would benefit the student because of the depth of the course content.</p> <p>Room 160 has been organized to expedite inventory control.</p> <p>Tool cabinet reorganized to improve student access with lean manufacturing inventory control.</p>	<p>Blask, Mikulski, Walker</p> <p>Blask, Mikulski, Walker</p> <p>Mikulski</p> <p>Walker</p> <p>Blask, Walker</p>		
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**NORTH TONAWANDA HIGH SCHOOL
School-Based Plans
2009-2010**

DISTRICT FOCUS AREA: Culture and Climate (technology)
GOAL # 3 A. Successful transition from middle school to high school
B. Information about post secondary opportunities provided for high school students
C. Internship opportunities available to seniors
D. Improve climate with classroom and club involvement in other departments.
E. Decorate to educate

OBJECTIVES/ OUTCOMES	ACTION PLANS/STRATEGIES	TIME/PERSON RESPONSIBLE	HOW ACTIONS WILL BE MONITORED, EVALUATED	PROFESSIONAL DEVELOPMENT
<p>a.To assure that students become more informed about high school course selection and career choices</p> <p>b.To collaborate between the high school and the middle school for enhancement at the high school level</p> <p>b.To provide information about</p>	<p>Information about high school program relayed to students and faculty at middle school</p> <p>The high school teachers participated in the 8th grade career day and provided visual and verbal information</p> <p>The high school teachers will attend 9th grade orientation to provide parents and students with information on curriculum, clubs and the academy.</p> <p>Both career day and orientation will be attended by teachers to promote the program</p> <p>Meet with all department technology teachers to coordinate ideas and planning. Current goals sent to L. Colburn.</p>	<p>Middle and high school teachers in department and guidance office</p> <p>Middle and high school teachers in department</p>	<p>By number of middle school students seeking high school technology classes and continuation of clubs and teams</p> <p>By interest level of incoming freshmen</p>	<p>Time made available through department meetings and common planning periods for collaboration</p> <p>Staff development time</p>

<p>post-secondary opportunities</p>	<p>Inform students about articulation agreements with area colleges</p> <p>Parents and students are informed at the beginning of the school year at open house and course syllabuses about the agreement between NCCC and CAD1 and CAD 2 for college credit</p> <p>A representative from NCCC will come in and gave a presentation to CAD classes</p>	<p>Teachers/guidance</p>	<p>By number of students interested in CAD and continuing at NCCC</p> <p>Last year, 7 NT seniors attended NCCC in the CAD curriculum</p>	<p>Attendance by teachers to the Tech Prep conference meetings held at NCCC bi-monthly</p>
<p>c. Internship opportunities available to seniors</p>	<p>Will be repeated this year</p> <p>The CEIP class is required for all academy students in their senior year.</p> <p>Internships between local businesses and Academy seniors were established starting last spring. Most seniors have completed the required hours.</p>	<p>Academy director and teachers</p> <p>Blask, Mikulski, Walker</p>	<p>Through academy and guidance department</p> <p>On site evaluation forms completed</p>	<p>Staff development time and opportunities for business contacts</p>
<p>d.Improve climate with classroom and club involvement in other departments</p>	<p>Technology teachers Steven Blask and June Mikulski have certification in CEIP. They are currently making contacts and setting up summer internships.</p> <p>Work with other departments as “real world” projects to assist other school activities. Working with Vallas to build stage for Cabernet.</p> <p>Currently building stage set for</p>	<p>teachers & club advisors</p> <p>teachers/students</p>	<p>music departments approval</p> <p>completed working structure</p>	<p>after school club time</p>

<p>e. Decorate to educate</p>	<p>music department musical with P.O.E. and other clubs.</p> <p>Build props requested by principal for special assignments.</p> <p>Built football toss for senior class.</p> <p>Improve room aesthetics</p> <p>Electronics class will build a giant circuit board on wall</p> <p>Building shelves in storage room.</p>			
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