

# Technology and Engineering Syllabus

## Purpose

Advances in Engineering and Technology are constantly affecting the way we live. New ideas and products are appearing every day. The computer you bought last week is now outdated by the one just introduced yesterday.

During the nine weeks your student will be in the Engineering and Technology course, they will be exposed to a vast array of important areas of technology that may have a major effect on the way they view these advancements. Each student will be given the opportunity to learn by reading different materials, watching selected video clips, working through computer software programs, and doing many hands on activities, all of which are designed to provide information about various engineering practices and technologies.

The Engineering & Technology course is a student focused lab in which students follow a set of instructions that direct them through different learning activities. Students will often be paired according to their interests and will have the opportunity to share working experiences with fellow students.

## Course Outline

### 9 Week Connection Class

Week 1 - Introduction to Engineering and Technology + Problem Solving (Whole Group & Individual)

Week 2 through 3 - Introduction to Modules and equipment in Lab (Partners)

Week 4 - Research on Inventions/Inventors - PowerPoint Presentations (Individual or Partners)

Week 5 - Research on Engineering and Technology - PowerPoint Presentations (Individual or Partners)

Week 6 through 7 - Introduction to Modules and equipment in Lab (New module and new partners)

Week 8 - Marketing Project (Groups)

Week 9 – Complete all assignments and Final Test (Groups & Individual)

## Lab Discipline and Grading

Our goal in the Engineering & Technology Lab is to create the best possible atmosphere for the student's learning. The success of this Connections Class depends on how the students act and react to their environment. In order to make this an enjoyable learning experience for all, the students must follow certain procedures that have been implemented for the safe utilization of this lab.

All students are subject to the school rules as stated in the Student Handbook located within their Agenda. These rules will be enforced while the student is in this lab.

Any behavior that prevents students learning, or disrupts the class in any way will not be tolerated and could result in disciplinary action.

Any extreme behavior (fighting, yelling, safety violations, etc..) will immediately be addressed to the Vice Principal's office.

Each student is informed of these rules during their first day of class.

A student's grade is determined by points accumulated from daily work, study questions, journal writing, module assignments and test, and problem solving classroom activities. Each student is provided with a binder where they keep their work and track their assignments. Grades are posted to [www.MyGradeBook.com](http://www.MyGradeBook.com) as assignments are completed.

Grading Scale: A=90-100 B=80-89 C=71-79 D=70 F=0-69

## Modules

Digital Sound	Space Technology
Construction Techniques	Graphics & Animation
Computer Aided Publication	Web Page Design
Computer Aided Design (CAD)	Multimedia
Basic Electricity	Robotics-Lego
Automotive Technology	Video Game Design
Research & Design	Car Design/Building
Music Production	Video Production
Aerodynamics	Unmanned Aerial Vehicle
Flight Simulation	