

# DEAR PARENTS,

This is an informational page for you about the Applied Technology course your student is in. Please **KEEP** this page.

There are many consumable materials used in this class. To help defer the cost of the consumable materials, a **\$20.00 lab fee** is necessary. This is **not** the same as the "Technology Fee" paid during registration, this is an "Applied Technology Lab Fee". We prefer a check. Checks may be made payable to: **District #66**. For cash payments, please put it in an envelope with the students name on it.

**LAB FEE DUE DATE:** \_\_\_\_\_

My **Web Page** Information: from the [www.ccsd66.org](http://www.ccsd66.org) web page, click on **Lakeview**, scroll down and click on **ENCORE**, on the next screen, click on **Applied Technology**. You will see links for my email, my blog and a new item is my "wiki". The "wiki" is a place for students to put information about the modules to be used by future students (at a module). Students or parents will need the password/invite key: lakeview . You will need to enter your name in the Name box and enter your email address. You can also refer to the directions on the "Web Site" page.

The primary objective of the **Applied Technology** class is to expose students to the technologies of today preparing them for the tomorrow. It is a "hands-on" technology experience with equipment and software at each station.

A "**module**" is an individual unit of study that two students complete over a period of eight to ten days. Each module is a self-sustaining "station" containing all the necessary curriculum, software, and hardware necessary to learn about a particular technology.

Students could study any of the following modules during a trimester: Aerodynamics, Alternative Energy, Animation, Architecture, Automation & Robotics, Computer Aided Design (CAD), Computer Graphic Design, Computer Numerical Control (CNC) Milling, Digital Video Editing, Engineering & Stress Analysis, Exploratory Electronics, Exploratory Mechanisms, Fiber Optics & Lasers, Flight Simulation, Fluid Power, Introduction to Technology, Meteorology & Forecasting, Plastics Technology, Radio Broadcasting, Space & Rocketry, and Video Production.

At a module, students complete some kind of project. Some projects are computer generated using third party software, such as: computer drawings (CAD), architectural drawings, computer graphic designs, computer animations. Some projects are hands on projects such as: radio shows, balsa bridges, plastic molds, weather forecasts, CNC milled projects, robotic arm programs, balsa planes, video produced commercials and completed rockets.

Equipment at the modules are: a wind tunnel, laser, fiber optics trainers, electronics trainer, CNC milling machine, weather station, vacuum mold machine, injection mold machine, robotic arm, video camera & lighting equipment, fluid power trainer, alternative energy trainer, exploring mechanisms trainer, radio broadcasting equipment, and an engineering stress analyzer.

Students will use the "**Lab-Volt**" curriculum software to complete a module. It is a seven lesson curriculum with quizzes and a post test.

Students in this course will learn about the five areas of technology: Communication,

Transportation, Manufacturing, Construction and Bio-Related technologies.

Students in **Sixth** grade will complete three to four modules. **Seventh** grade will complete five modules. **Eighth** grade will complete five to six modules.

The uniqueness of this program, presents new challenges to the student. Teams of two students, working cooperatively are guided through a seven lesson curriculum that focuses on a particular technology. After completing each technology or "module" students rotate to a new module.

To be successful, students must become **independent learners**. Students will need to use the **Applied Technology Problem Solving Model**: "re-read the information, discuss a solution (with their partner) and then 'do or try something' to solve the problem".

The **absence policy** for make up work is: when a student is absent, the most important items at a module will have to be made up. The student must discuss missed work with the teacher when they return.

Work that needs to be "made up", can be done in "Open Lab". These Open Labs are: **Monday, Tuesday, Thursday and Friday from 7:25 am. to 7:50 am.** The lab is also open during study halls. **Open Lab for study hall "A" is on Tuesday and Thursday. Open Lab for study hall "B" is on Monday and Wednesday.** There is no penalty for students to do any make up work as long as it is turned in a reasonable period of time. **Students in band are not to skip band to come to open labs !!**

**At the Modules, students will:**

- Collaborate on assigned work to complete the tasks at a module.
- Become independent learners.
- Use the "Applied Technology Problem Solving Model".
- Research careers associated with a module.
- Use a computer each day to complete tasks.
- Show proficiency at various third party software packages.
- Complete a "Time-line" activity.
- Demonstrate an understanding of the "Environmental Impacts" of technology.

**Students will:**

- perform activities that demonstrate an understanding how to use technology in communication and problem solving. (State Technology Standard 2A)
- use industry standard software (at many modules) to demonstrate knowledge on the uses of computers and technology in education. (State Technology Standard 1F)
- adhere to copyright laws in the access and use of the information from technology sources. (State Technology Standard 2H)
- explore and use computer/technology resources including educational software. (State Technology Standard 3B)
- use on-line search tools. (State Technology Standard 6D)
- use instruction that fosters/reflects higher level thinking skills in problem solving (State Technology Standard 8D)
- cooperatively learn in groups as part of the students' tasks and assignments. (State Technology Standard 8E)

Sincerely,

**Mr. Paul Rodda**