

DESIGN AND DRAWING FOR PRODUCTION

Overview: Ever tried to design something new or draw up an idea you wanted to share with your friends and wondered how you could communicate your idea? Or, have you wondered how someone designed that new MP3 player or sleek new phone? Then Design and Drawing for Production is the course for you. The major focus of the course is learning how to take an idea through a design process that will eventually be manufactured or produced. As you learn about various aspects of engineering and engineering design, such as how engineers communicate through drawing, you will apply what you learn through various activities, projects, and problems. For example, after learning about the different techniques engineers use in determining how to design a product, you and your teacher will have the flexibility to explore the design and engineering processes to solve problems that are of interest to you. The course covers the following:

- The Role of an Engineer
- The Design Process
- Product Design
- Product Analysis and Improvement
- Designing as an Engineer

In addition, you will use Inventor, which is a state of the art 3-D design software package from AutoDesk, to help you design solutions to different design projects. Working in teams, you will learn about documenting your solutions, solving problems, and communicating your solutions to other students and members of the professional community of engineering and engineering design. You will also have the ability to use our new 3-D printers to print working prototypes of your work.

Materials:

- Students will be required to have a 3 ring binder with pockets to keep materials, notes, quizzes, tests, homework, and any other handouts organized. In their binder they must have paper for notes and dividers.
- Students will need their own pen or pencil every day.
- Students must have their agenda/planner to class everyday. There will be times in class that students will need to write down important information and dates.

Classroom rules:

- Be considerate of others. This means when the teacher or another student is talking, you are not.
- Come to class on time.
- All lab and machine safety rules must be followed at all times.
- Be prepared to learn and take all notes.

Consequences:

First time is a verbal warning.

Second time is a teacher detention.

Third time is a teacher detention and a call home to your parents will happen.

Forth time is an office referral.

Fifth time may result in a conference with your parents either in person or on the phone.

Grades: Each assignment will be giving a possible number of points. 5 and 10 week averages will be calculated by taking the number of earned points and then dividing by the number of possible points and then multiplying by 100.

No Fail Insurance Policy: If a student receives a grade that they feel is not appropriate, the student may make changes to homework, class work, and projects by the end of the marking period that the assignment was due to raise their grade to a level that they feel is appropriate.

Homework: There are times that you will need to complete homework in class. Homework is due on the due date. If the homework is not turned in on the due date then a zero is given for a grade. If a zero is given then the student may not use the No Fail Insurance Policy to raise their grade.

Help: If any student needs help, they may arrange a time for help during, or after school.

If you need to reach me, you may do so by calling the mail office at 631-7481 or through e-mail at smitha@maryvaleufsd.org

I want this year to be positive for all of us. More than anything for you to have a positive and productive learning experience in my class. With your cooperation we can do many amazing things!

After you and your student have read this sheet, please detach, sign and return the bottom to me. Thank You.

(Student Signature)

(Student Print Name)

(Parent Signature)

(Parent Print Name)