

Introduction to Technology



Course Description

This course offers an overall view of exploring technology, from an engineering basis, and how it impacts daily life and societal norms.

Instructor:

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Course Materials Required:

- *Sketch-up*
- *Push Pins*
- *Hot Glue*
- *Glue Guns*
- *Projector*
- *Rulers*
- *Tools for disassembly, i.e., small screwdrivers, X-Acto knives, etc.*
- *Safety equipment, i.e., safety glasses, gloves, cutting mats as needed*
- *Balsa Wood*
- *Straws*
- *Cardboard*
- *Blank paper for sketching*
- *Art materials such as paper, markers, paint, etc*

Resources: Canvas

Learning Activities

- *Build House with Balsa*
- *Caspian House*
- *Sketch-Up Balsa House*
- *Sketch-Up Caspian House*
- *Sketch-Up Straw Tower House*
- *Sketch-Up Ramp*
- *Build Straw Tower*
- *Build Ramp*

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Course Outline

Unit	Approximate Dates	Topics	Student Activities
Unit 1- Meeting Technology	15 days	1. Technology To The Rescue 2. System Design: What Every Technology Needs 3. Transforming Resources Into Technology: From Production To You	<i>Learn to use sketch up Build house on sketch up</i>
Unit 2- Practicing Design	15 days	1. The Role of Problem Solving 2. Design: It's A Process 3. Communicating Ideas Graphically 14 Hour(s)	<i>Build Balsa House</i>
Unit 3- Project Revive	10 days	Revitalizing Communities Using Existing Models 1. Community Related Environmental Problems and Technology	<i>Ramp or tower project</i>

Major Course Assignments/Assessments

- *Build House on Sketch-up*
- *Build Balsa House*
- *Build Ramp*
- *Build Straw Tower*

Grading: Grades are averaged by points.

Grades will be determined by the following category weights:

Category	Percentage
<i>Cummulated</i>	<i>100%</i>

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<i>Points</i>	

Grading Scale:

Letter Grade	Range
A	100-90
B	89.99-80
C	79.99-70
D	69.99-60
F	59.99-below

Absences/Make-up Work:

Students who are absent from school will be allowed to make up work for equivalent academic credit. The time allowed to make up work will generally be one school day for every school day missed, starting with the first day the student returns to school. In extenuating circumstances a student may ask his/her teacher for additional time to make up work. It is the responsibility of the student (and his/her parent/guardian), not the teachers, to get the assignments, complete them, and turn them in, and to arrange a time with the teacher to make up any missed quizzes or tests. Incomplete work or failure to do the work may result in a lowering of grades.

Timeframe for makeup work:

Students have 1 week to complete and submit work starting date student returns from absence unless private accommodations are made,

Procedure to follow to receive and submit makeup work:

All sketch up work to be completed during task.

Project work to be completed during task.

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