# Materials and Processes Technology

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### Text:

### Wood Technology and Processes, Glencoe, 2011

### Description:

This course will introduce / re-introduce safety first. The course will focus on the many aspects (processes) of a product (materials): Origin, design, manufacturing, testing, marketing, improvements… Each of these elements will be studied and practiced.

### Goals:

Learn and exhibit consistent safety habits

Learn and improve knowledge of shop equipment / computer software

Create a project (product) using goals 1 & 2

### Supplies:

All shop supplies will be provided. Students are to bring: AVID binder or folder (three prong, pockets), paper, pencil or pen, colored pencils

### Misc.:

District / School policy regarding tardys, cell phones, food/gum, etc. will be enforced

Your grade will be a combination of participation, binder checks and weekly Focus tests

There will be many field trip opportunities. Fire/Police stations, PTC, Allstate Center (Police training) and more

### Topics / Projects:

Safety

The entire Wood textbook

Drafting and 3D drafting software

3D printing

Laser / plastic engraving

Marketing / photography

Aviation / drones / RC planes / Flight Simulator

Heavy equipment operation

Plastic injection molding

Safe hand / power tool / equipment operation

Band saw boxes / pen turning / tool boxes / various random / individual projects (these come up frequently)