

# Grade 7/8 Design and Technology Syllabus

Mr. Corkill

Glenview Senior Public School  
2018-2019

## Overview

We have an exciting year ahead in Design and Technology (DT). Here is what to expect in Grade 7 and 8.

This course is designed as an introduction to safety practices and basic procedures commonly used in woodworking shops. Students are expected to conduct them self in a professional manner as if they are in a true working environment.

The learning expectations for the term are as follows;

- apply a variety of problem solving strategies in design and implement them in construction
- demonstrate safe and responsible work habit in technology areas
- understanding of how materials behave when cut/sawn/shaped/joined
- design solutions that are realistic/achievable/ambitious
- develop practical skills

### **PARTICIPATION:**

My definition of participation is based on the following criteria.

1. Being actively engaged on a project and or topic of the day.
2. Cleaning the equipment and shop at the end of the hour.
3. Safe and proper usage of tools and equipment.
4. Proper personal safety practices including wearing safety glasses, long hair tied back, or under a hat, no open toe shoes, no shorts, sleeves, rolled up, and jewelry removed. **BE READY TO WORK!**

## Texts

Browning, Heighington, Parvu, Patillo, Design and Technology. McGraw-Hill Ryerson Ltd. Toronto, Canada. 1993.

Texts are for classroom reference only. Texts can be signed out at the end of the day but must be returned the next school day.

## Assignments

### 1. Unit tests

At the beginning of the term the students learn a large amount of safety regulations. In grade 7 they must score a 75% on the safety test in order to use the machines in the technological areas and in grade 8 they must score an 80%. If you are not present on the day the test is written, you will write the test the next class period. Alternate arrangements can also be made to write the test after school at a mutually convenient time.

### 2. Assignments/Assessment

During the term the students will be given a large project to design and fabricate. However throughout the term they will have diagnostic assessments in the form of a daily rubric marking safety and cleanup duties. We use a rubric for the daily work in the technological areas as well

as for the final project. Other forms of assessment are checklists, anecdotal notes and self-reflections. Another diagnostic assessment the students will receive is when they complete training on a machine they will receive an approved stamp on their training record. The formative assessment is a safety test at the beginning of the year to establish safe working habits and an understanding of shop work. The summative assessment is for the large project and culminating activity.

### 3. Final Project

The final project which is worth 80% of their report card mark will be a wooden structure designed and fabricated on their own. They will be given a choice to work in groups but it is not mandatory. This year in Grade 7 they will be fabricating Skyscrapers in line with the Grade 7 Science curriculum, Forms and Function. In Grade 8 they will be fabricating hydraulic arms in line with the Grade 8 Science curriculum, Fluids.

### **Final Grade**

#### **EVALUATION:**

- Project 80%
- Safety Test 20%

#### **MATERIAL NEEDED FOR CLASS**

- Pencil, Pen, Eraser, Ruler and Compass
- Design and Technology Binder
- Student Agenda

#### **DRESS CODE**

- Close Toed Shoes
- No Loose Clothing
- Hair tied back

#### **EYE PROTECTION**

Safety Goggles  
Safety Glasses  
Face Shields

### **Class Schedule**

(Please note the schedule is subject to change)

#### **4 Terms (15 classes total)**

September – November

November- February

February-April

April-June

#### **Term Outline**

Day 1 Introduction to shop and review safety procedures  
Day 2 Safety Test  
Day 3 Review Test, choose cleanup jobs and project introduction  
Day 4 Familiarization of Wood Shop, Demonstration of tools and machines, Training  
Day 5 Project Meetings, Design Initiation and Training  
Day 6 Approval of Designs and Fabrication begins  
Day 7-14 Fabrication and further training  
Day 15 Project Assessment and Self-Reflection