

# Grade 8 Industrial Arts Course Outline

## Course Overview

- In the grade 8 Industrial Arts program, students will be exposed to two areas, drafting and carpentry with an emphasis on “hands on work”.
- In the drafting area, students will develop skills using manual drafting equipment. They will learn how to create Isometric, and Orthographic drawings. They will be introduced to Computer-Aided Drafting (CAD) software and 3D-Design. They will use the 3D Printer
- In the carpentry area, students will have the opportunity to build a foot stool and intarsia. Students will be exposed to a variety of stationary power tools, portable power tools, and hand tools.
- The main focus of every class is SAFETY.

## Assessment:

### Mark Breakdown:

Student marks for the course will be determined in the following manner.

*Note: This breakdown is only a guideline; modifications could be made as the class progresses*

Area Weighting	Assessment Weighting
Drafting	25%
Carpentry	50%
Industrial Work Habits	25%

**Formative Assessment** – There will be practice woods projects to learn about tool usage before work is started on the take-home project. Formative assessment for drafting will occur on a daily basis with feedback before and during assignments. The goal is to have students achieving at a high level before they receive complete any summative assessments.

**Summative Assessment** – The following rubrics will be used for summative assessment:

Weekly Industrial Work Habits Rubric			
	0	1	2
<b>Class Work</b>	Student works for less than 50% of the time during class or had an unexcused absence.	Student works for at least 50% of the time during class.	Student works for more than 85% of the time during class.
<b>Lab Cleanup</b>	Student participates for less than 50% of the time allotted for lab cleanup or had an unexcused absence.	Student participates for at least 50% of the time allotted for lab cleanup.	Student participates for more than 85% of the time allotted for lab cleanup.
<b>Safety</b>	Student did not work safely after being reminded to work safely or had an unexcused absence.	Student had to be reminded to work safely.	Student worked safely all class. No reminders were needed.

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		Project Rubric				
	1	2	3	4	5	Points
<b>Drawing and measuring project to size.</b>	Project was incorrectly drawn and measured to size.	More than 5 mistake were made in drawing and measuring the project to size.	Only 3-4 mistakes were made in drawing and measuring the project.	At most 2 mistakes were made in drawing and measuring the project.	Project was drawn and measured to exact size.	
<b>Cutting and shaping of material.</b>	More than 7 mistakes were made in cutting and shaping of the material to size	5-7 mistakes was made in cutting and shaping of the material	3-4 mistakes were made in cutting and shaping of the material.	1-2 mistakes were made cutting and shaping the material.	Material was cut and shaped to size, using proper tools.	
<b>Safety (x2)</b>	Student needed constant reminding to work safely	Student needed frequent reminding to work safely	Student needed occasional reminding to work safely.	Student needed almost no reminding to work safely.	Safety precaution were always followed.	
<b>Project Assembly</b>	Project is poorly assembled and will not stay together for any length of time.	5-7 errors was made in the assembly of the project.	3-4 errors was made in the assembly of the project.	1-2 error was made in the assembly of the project.	Item is correctly assembled using proper joining techniques.	
<b>Project surfaces and edges</b>	Surface finish is overall rough with unfinished edges.	Surface finish is rough in spots <b>and/or</b> multiple layout marks are showing. 6-7 layout marks	Almost all surfaces are filed and sanded smooth; edges are finished with layout marks showing in 4-5 locations.	Almost all surfaces are filed and sanded smooth; edges are finished with layout marks showing in no more than 3 locations.	All surfaces are filed and sanded smooth, edges are finished. A minor layout mark may appear.	
<b>Independence (x2)</b>	Student did 25% of the work.	Student did 50% of the work.	Student completed 75% of the work.	Student completes 90% of the work on their project.	Student completes 100% of the project.	
<b>Project Finish (Woods Only)</b>	Finishing is applied poorly <b>and</b> all surfaces are not covered.	Finishing is applied poorly <b>or</b> not all surfaces are covered.	Finishing is applied unevenly and all surfaces are covered.	No more than 2 mistakes were made with the finishing product	Finishing is applied neatly and all surfaces are covered	