

Challenge Management - Timelines

DAY	DESIGN PROCESS	ACTIVITY	NOTES
1	Project Introduction Research Information Gathering	<ul style="list-style-type: none"> • Introduction of project • Location of Resources/Collaboration Systems/ • Discuss order of Procedure • Discuss Group Formation 	<ul style="list-style-type: none"> • Location of all Project Files • Encourage BOD (Bring Your Own Device), Google Groups, Review/Communication of group member methods
2		<ul style="list-style-type: none"> • Students form groups of 2 • Review Activity – Challenge Requirements • Introduce Technical Reporting – Engineering Log Requirements • Review order of Procedure • Graphic Organizer and Gantt chart lesson • Complete situation 	<ul style="list-style-type: none"> • Outline Engineering Log Requirements and Sample noting • Evaluation – Challenge Requirements • Review Google Classroom • Location of all Project Files • Setup up Project Management/Gantt Chart
3		<ul style="list-style-type: none"> • Graphic Organizer and Gantt chart lesson • Lesson/review of Hydraulics/Pneumatics • Investigate simple machines • Begin Investigation • Brainstorming of ideas 	<ul style="list-style-type: none"> • Research hydraulic and actual Pick N’ Place principles and examples.
4		<ul style="list-style-type: none"> • Review Technical Drawing Methods (thumbnail sketching, sketching to scale) 	<ul style="list-style-type: none"> • Technical Drawing Exercises if necessary
5		<ul style="list-style-type: none"> • Investigation – Research • Brainstorming – Thumbnails of Ideas 	<ul style="list-style-type: none"> • Work Period – Complete for Homework
6	Project Developing Selecting Best Solution	<ul style="list-style-type: none"> • Review Technical Drawing Methods (thumbnail sketching, sketching to scale) • 2 concept/thumbnaill sketches (individual) • Gantt Chart Review - DUE 	<ul style="list-style-type: none"> • Instructor to review Project Management/Gantt Charts • Complete for homework
7		<ul style="list-style-type: none"> • Review Technical Drawing Methods • 2 thumbnail sketches (per individual due) • 2 concept sketches to scale (individual) 	Complete for homework Submit Thumbnails
8		<ul style="list-style-type: none"> • 2 concept sketches to scale (individual) DUE 	Submit Concept Scale Sketches
9		<ul style="list-style-type: none"> • Review CAD drawing requirements • Proper Title Pages – Set up Drawings • Ongoing process – Update CAD drawings to Evaluation Documentation Project Portfolio Stage Activities 	AutoCAD, Google Sketchup

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10		<ul style="list-style-type: none"> • CAD Drawings • Prepare Bill of Material 	<p>DO NOT ASK FOR MATERIALS UNTIL <u>ALL</u> TASKS ARE COMPLETE TO THIS POINT</p>
11	Tool Safety	<p>Hand/Power tools safety and correct method of Use to be covered but not exclusive:</p> <ul style="list-style-type: none"> • Dremel Tool • Drill Press • Hand Saw • Mitre Saw • Scroll Saw • Modelling Knives (Exacto) • Hot Glue Gun • Paints Sealants and Finishes 	<ul style="list-style-type: none"> • Student sign off on tools • Safety Test
13	Modelling Construction	<ul style="list-style-type: none"> • Students building projects 	
14		<ul style="list-style-type: none"> • Students building projects 	
15		<ul style="list-style-type: none"> • Students building projects 	
16		<ul style="list-style-type: none"> • Students complete building projects • Begin CAD drawings 	
17	Evaluation Documentation	<ul style="list-style-type: none"> • CAD drawing 	NO SHOP WORK
18		<ul style="list-style-type: none"> • Test projects 	
19		<ul style="list-style-type: none"> • Complete CAD and Paperwork 	TECH REPORT DUE IN TWO CLASSES
20		<ul style="list-style-type: none"> • 	