

Engineering Applications

Fall 2025

Ms. Dodson

(Rm. 1 or 105)

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Class Syllabus

Google Classroom Code:

kilaw7nl

[Sept 1](#) [Sept 8](#) [Sept 16](#) [Sept 22](#) [Sept 29](#) [Oct 7](#) [Oct 20](#)
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Power Essentials and Learning Targets:

Date	Power Essential	Learning Target	In-Class	Assignments
Thursday August 14	Welcome!		Welcome	<ul style="list-style-type: none"> - Student Info. Document - Add to Spotify Playlist - Safety Contract - Lab Fee \$10
Monday August 18	Students will maintain a safe working environment.	I can apply knowledge of safety requirements of the Manufacturing area.	Welcome / Safety	<ul style="list-style-type: none"> - Make sure can log onto server - Manufacturing Safety Worksheet - <u>Turn in the Safety Contract!</u> - Review for Manufacturing Safety Test!

Date	Power Essential	Learning Target	In-Class Activities	Assignments
Wednesday August 20	Students will maintain a safe working environment. Students will utilize precision measurement devices.	I can apply knowledge of safety requirements of the Manufacturing area. I can measure a part within 1/16" utilizing a tape measure / steel rule. I can measure a part within .005" utilizing a dial caliper.	<u>Manufacturing Safety Test</u> Safety / Measuring	- <u>Turn in the Safety Contract!</u>
Friday August 22	Students will utilize precision measurement devices.	I can measure a part within 1/16" utilizing a tape measure / steel rule. I can measure a part within .005" utilizing a dial caliper.	Measuring	...
Tuesday August 26	Students will utilize precision measurement devices.	I can measure a part within 1/16" utilizing a tape measure / steel rule. I can measure a part within .005" utilizing a dial caliper.	Measuring	- Review how to use a dial caliper for Test!
Thursday August 28	Students will utilize precision measurement devices.	I can measure a part within 1/16" utilizing a tape measure / steel rule. I can measure a part within .005" utilizing a dial caliper.	Measuring	
Monday September 1	No School - Labor Day			
Tuesday September 2	Utilize drafting and design technology.	Employ the appropriate technology tools for conveying	<u>CH3 - Assembly Modeling</u>	- Turn in CH3 Worksheets

Date	Power Essential	Learning Target	In-Class Activities	Assignments
Thursday September 4		information, solving problems, and expediting workplace processes.		
	Utilize drafting and design technology.	Employ the appropriate technology tools for conveying information, solving problems, and expediting workplace processes.	CH3 - Assembly Modeling	- Work on CH3 Exercises
Monday September 8	Utilize drafting and design technology.	Employ the appropriate technology tools for conveying information, solving problems, and expediting workplace processes.	CH3 - Assembly Modeling	- Review for Dial Caliper Test - Work on CH3 Exercises - Review for CH3 Test
Wednesday September 10	Utilize drafting and design technology.	Employ the appropriate technology tools for conveying information, solving problems, and expediting workplace processes.	CH3 - Assembly Modeling	- Review for Dial Caliper Test - Work on CH3 Exercises - Review for CH3 Test
Friday September 12	Utilize drafting and design technology.	Employ the appropriate technology tools for conveying information, solving problems, and expediting workplace processes.	CH3 / Dial / Pumpkin Dial Caliper Test	- Work on CH3 Exercises - Review for CH3 Test - Start thinking about Pumpkin Chunkin Device
Tuesday September 16	Utilize drafting and design technology. Employ a formal engineering design process to create a	Employ the appropriate technology tools for conveying information, solving problems, and expediting	CH3 / Pumpkin	- Work on CH3 Exercises - Review for CH3 Test - Sketching P/C device! Due the 22nd!

Date	Power Essential	Learning Target	In-Class Activities	Assignments
Thursday September 18	solution to an existing problem.	workplace processes. Demonstrate authentic engineering methods and documentation.		
	Utilize drafting and design technology. Employ a formal engineering design process to create a solution to an existing problem.	Employ the appropriate technology tools for conveying information, solving problems, and expediting workplace processes. Demonstrate authentic engineering methods and documentation.	CH3 / Pumpkin	- Work on CH3 Exercises - Review for CH3 Test - Start bringing P/C Materials if turned in sketch
Monday September 22	Utilize drafting and design technology. Employ a formal engineering design process to create a solution to an existing problem.	Employ the appropriate technology tools for conveying information, solving problems, and expediting workplace processes. Complete a prototype or minimum viable product (MVP).	CH3 / Pumpkin	- Work on CH3 Exercises - Review for CH3 Test - Start bringing P/C Materials / Building Device
Wednesday September 24	Utilize drafting and design technology. Employ a formal engineering design process to create a solution to an existing problem.	Employ the appropriate technology tools for conveying information, solving problems, and expediting workplace processes.	CH3 Test / Pumpkin	- Turn in CH3 Exercises - Building P/C Device

Date	Power Essential	Learning Target	In-Class Activities	Assignments
		Complete a prototype or minimum viable product (MVP).		
Friday September 26	No School - Professional Development Day			
Monday September 29	Utilize drafting and design technology.	Complete a prototype or minimum viable product (MVP).		
	Employ a formal engineering design process to create a solution to an existing problem.			
Wednesday October 1	Utilize drafting and design technology.	Complete a prototype or minimum viable product (MVP).		
	Employ a formal engineering design process to create a solution to an existing problem.			
Friday October 3	Utilize drafting and design technology.	Complete a prototype or minimum viable product (MVP).		
	Employ a formal engineering design process to create a solution to an existing problem.			
Tuesday October 7	Utilize drafting and design technology.	Complete a prototype or minimum viable product (MVP).		
	Employ a formal engineering design process to create a solution to an existing problem.			
Thursday October 9	Utilize drafting and design technology.	Complete a prototype or minimum viable product (MVP).		
	Employ a formal engineering			

Date	Power Essential	Learning Target	In-Class Activities	Assignments
Monday October 13	design process to create a solution to an existing problem.			
	Utilize drafting and design technology. Employ a formal engineering design process to create a solution to an existing problem.	Perform engineering tests to evaluate the prototype or MVP.		
Tuesday October 14	Pre-ACT Testing Day			
Thursday October 16	No School - Teacher Work Day			
Friday October 17	No School - PTC Payback Day			
Monday October 20	Utilize drafting and design technology.	Perform engineering tests to evaluate the prototype or MVP.		
	Employ a formal engineering design process to create a solution to an existing problem.			
Wednesday October 22	Utilize drafting and design technology.	Perform engineering tests to evaluate the prototype or MVP.		
	Employ a formal engineering design process to create a solution to an existing problem.			
Friday October 24	Utilize drafting and design technology.	Perform engineering tests to evaluate the prototype or MVP.		
	Employ a formal engineering design process to create a solution to an existing problem.			

Date	Power Essential	Learning Target	In-Class Activities	Assignments
Tuesday October 28	Utilize drafting and design technology. Employ a formal engineering design process to create a solution to an existing problem.	Apply task-specific mathematical concepts. Apply task-specific scientific concepts. Report on the importance of each step of the engineering process.		
Thursday October 30	Utilize drafting and design technology. Employ a formal engineering design process to create a solution to an existing problem.	Apply task-specific mathematical concepts. Apply task-specific scientific concepts. Report on the importance of each step of the engineering process.	Pumpkin Chunkin Test Day!	
Friday October 31	No School - Teacher Work Day			
Tuesday November 4				
Thursday November 6				
Monday November 10				
Wednesday November 12				
Friday November 14				
Tuesday November 18				
Thursday November 20				
Monday				

Date	Power Essential	Learning Target	In-Class Activities	Assignments
November 24				
Wednesday November 26	No School - Thanksgiving Break			
Thursday November 27	No School - Thanksgiving Break			
Friday November 28	No School - Thanksgiving Break			
Monday December 1				
Wednesday December 3				
Friday December 5				
Tuesday December 9				
Thursday December 11				
Monday December 15				
Wednesday December 17				
Friday December 19				