

Unit 3.1 Playlist - Onshape Build it - Legos

Estimated Time = 90 minutes



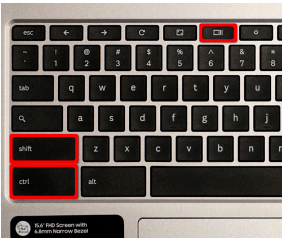
Directions:



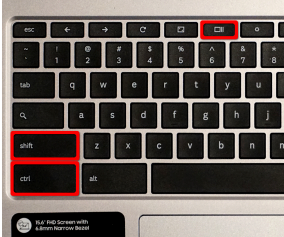
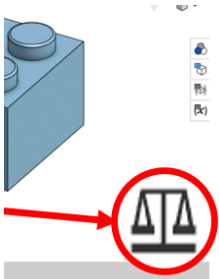
Follow the playlist! Every time you complete an activity, move the pin 📌

The last 5 minutes of class each day, Copy & Paste the pushpin 📌 to know where you stopped!

Also, type which step you are on! Fill in Gray boxes

Topic/Instruction	Topics/Questions	Student Resource or Links	Pacing & Progress
READ the Summary and Pacing Guide	<ul style="list-style-type: none">• Unit Goals• Lesson Descriptions• Suggested Pacing	Summary and Pacing Guide	
Complete the Peardeck!	Peardeck: What is an Engineer? Formative: 2C - Creative Communicator (Do NOT need to submit when done)	Student Join Link	
Copying the Onshape Document for Unit 3	<ol style="list-style-type: none">1. Open Onshape: https://fcps.onshape.com/c/signin2. Open the Student Guide3. Make a Copy of the Onshape doc→	Intro to CAD - 3.1-3.4 - Onshape Power Tools Rename to: "3.1-3.4 - Onshape Power Tools - [Your First Name]".	

<p>Additional Support</p> 	<p>This is a HELPFUL YouTube Playlist of Step by step for struggling students</p> <p>PLEASE! Use this when you are struggling!</p> <p>Open the link and check out the resources!</p>	<p><u>Youtube Playlist for Unit 3</u></p>	
<p>OPEN Unit 3 Onshape Document</p>	<ol style="list-style-type: none"> 1. Open <u>Onshape</u> 2. Open your copy of "3.1-3.4 - Onshape Power Tools - [Name]". 3. Share the link/URL to your Onshape Document! 	<p>Link to student onshape Document:</p>	
<p>3.1 How the Pros Do It</p>	<p>Topics</p> <ul style="list-style-type: none"> • Rectangular extrusion • Design intent • 2D sketches to create 3D • Workspace units <p>New CAD Skills</p> <ul style="list-style-type: none"> • Variables • Shell • Creating mate connector • Linear pattern 	<ul style="list-style-type: none"> • Complete 3.1 → Steps 1-8 	 <p>Step # 9</p>
<p>Screenshot</p>	<p>Post a Screenshot of your box after you complete step 8</p> 	<p>Student Screenshot:</p>	

<p>STOP & CHECK</p> 	<p>Stop!</p> <p>Check in and have a short discussion with MS. McGaughey</p>		
<p>Continue in Onshape!</p>	<p>3.1 How the Pros Do It</p>	<p>Complete 3.1 → Steps 9 - 17</p>	 <p>Step # 12</p>
<p>Screenshot</p>	<p>Post a Screenshot of your box after you complete step 17</p> 	<p>Student Screenshot:</p>	
<p>Formative</p> 	<p>Formative: 1B</p> <p>Make sure you have applied the material "ABS (density 0.001 g/mm³)". Use the mass properties tool to find the mass of your brick.</p> <p>What is the mass?</p>	<p>Student Answer:</p>	

STOP & CHECK



1. Stop!
2. Check in and have a short discussion with MS. McGaughey!
3. With Ms. McG you will discuss 3.1, check in and (for a Grade) make sure your answer to the exit ticket above is correct!

YOU DID IT!

SUBMIT!

GREAT JOB!

Submit this playlist when everything above is complete!