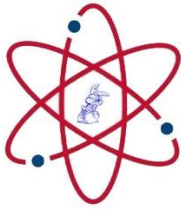


# CHS LOCAL SUMMER PROGRAMS & REGIONAL SUMMER SCHOOL



CLARKSBURG HIGH SCHOOL  
PROJECT LEAD THE WAY  
**PLTW**

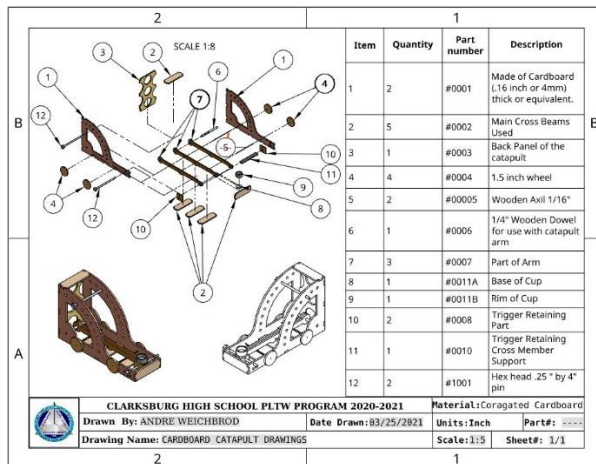
## Bridge for CADD Basics for Project Lead the Way Courses

Session 1: June 28<sup>th</sup> – July 16  
only

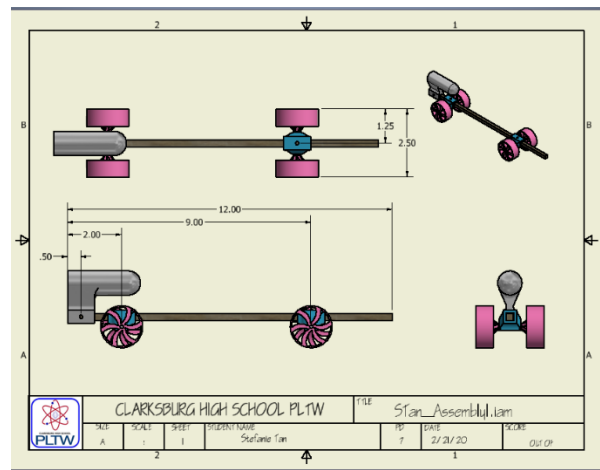
Dear Parents and 8<sup>th</sup> grade students,

As you are planning for next year at Clarksburg High School, please consider what you can do to prepare for it this summer. We have a limited number of openings for this **“Bridge for CADD Basics for PLTW Way Courses”** for students that are planning to take a PLTW Course next year at Clarksburg High School. This is a Pilot Elective course to help students transferring from one course to another within the PLTW Pathway.

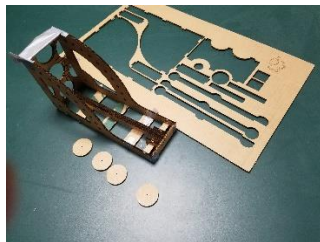
Due to Covid 19 impact on student’s ability to master some of the skills needed for future courses in the pathway, this Pilot Program was proposed. Students will be given an opportunity to create a product from the beginning as a sketched concept idea by hand to a Digital CADD Design that would be used to create a Laser Cut Product or 3D printed product. (See example products below)



**Laser Cut Wood Catapult**



**3D Printed Co2 Less Dragster**



Top Frame Assembly 05: Bolt the top frame on.  
 Note: You can add more top frames by using another 6 standoffs

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Link to summer sign up:


[https://docs.google.com/document/d/1UGVqm2mCqeAsVg7w73LAf8RtwzR3JE31Br131hQpy\\_0/edit?usp=sharing](https://docs.google.com/document/d/1UGVqm2mCqeAsVg7w73LAf8RtwzR3JE31Br131hQpy_0/edit?usp=sharing) (Links to an external site.)

Dear Clarksburg High School Parents and Guardians,

MCPS is planning a wide range of summer programs for elementary, middle and high school students. At the high school level, there will be a wide range of opportunities to earn high school credits in all subject areas required for graduation, for both repeat and original credit, as well as non-credit options in local schools. Below you will find information about our in-person summer school program and the MCPS Virtual Summer School Program.

[CHS Registration Communication to the Community - SPANISH](#)

Families can choose to register for one of the programs listed below:

	LOCAL CHS Programs (for Non-Credit Enrichment)	REGIONAL High School Summer School (for Credit)
How to Register?	Registration through your current school of enrollment.  To register for a Clarksburg High School Summer Enrichment Course, please complete the <a href="#">Clarksburg High School Summer Enrichment Registration Form</a> no later than June 11, 2021.	Registration using Parent-VUE Scan the QR code or go to <a href="https://md-mcps.edupoint.com/PXP2_Login.aspx">https://md-mcps.edupoint.com/PXP2_Login.aspx</a> to register  
When to Register?	Available from Monday, May 3, 2021 -	Available from Monday, May 3, 2021 -

Name of Course: Bridge for CADD Basics for PLTW Courses

Instructor: Andre Weichbrod

## Course Description

- This is an enrichment class to help students Bridge the GAP from hand sketched Ideas to 3D computer generated Models that can then be turned into solid manufactured models. Students will explore the possibilities of taking an idea from conception to final production of a product.
- Space is limited to 15-20 students with preference to PLTW students entering the school from middle school feeder or students that have taken IED, POE, or DE but due to covid and distance learning environment need refresher on this process.
- The Goal is to pilot this class in hopes that it can be offered for the future to transitioning students that have not had an opportunity or have not been able to develop the skills needed for CADD as a tool for their PLTW or Engineering courses.

# CHS LOCAL SUMMER PROGRAMS & REGIONAL SUMMER SCHOOL

## Student Outcomes

Upon completion of the course, students will be able to:

- Use basic CADD skills to develop hand drawings of brainstormed ideas into a final 3D computer model.
- Use their 3D computer models to create a final physical model of their ideas.
- Create a 3D print or laser cut model to demonstrate their understanding of a production of a proto type.

Thank you for your interest in the PLTW Bridge For CADD Skills Class if you have question please contact Mr. Weichbrod at [Andre\\_Weichbrod@mcpsmd.org](mailto:Andre_Weichbrod@mcpsmd.org)