



# Williamson County 3D Printing



## Overview

Participants will learn the technology of 3D printing as well as three dimensional Computer Aided Design (CAD) tools. In class we will transform concepts of an object into a digital representation and ultimately to a physical model. The class will feature Dremel and Flashforge printers, TinkerCAD & Sketch-up design tools and end in a competition of individually designed 3D printed “Pinewood” Derby cars.

Classes are open to grade 8 through 12.



## Meeting Dates and Times

**3D Printing Meeting Dates on Tuesdays from 6:00 – 7:30 PM:**

Sept 10<sup>th</sup>, 24<sup>th</sup>, Oct 8<sup>th</sup>, 22<sup>nd</sup>, Nov 12<sup>th</sup>, Dec 10<sup>th</sup>, Jan 7<sup>th</sup>, 21<sup>nd</sup>, Feb 11<sup>th</sup>, 25<sup>th</sup>, Mar 10<sup>th</sup>, 24<sup>th</sup>, April 7<sup>th</sup> & 21<sup>st</sup>.



## Registration Fee

Class cost is \$100 per student. Class is limited to the first 12 students registered and paid



## Meeting Location

Classes are held at the Williamson County Ag Expo Park 4215 Long Lane, Suite 200 Franklin, TN 37064



Return registration forms to the Williamson County Extension (615) 790-5721



# Williamson County 4-H STEM Registration Form 2019-2020

Student Name: \_\_\_\_\_

School/Homeschool \_\_\_\_\_ Grade: \_\_\_\_\_

Email: \_\_\_\_\_

\*Used for email communication by instructors, please put 1-2 email addresses you check & read regularly.

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Gender: \_\_\_\_\_

Parent Name(s): \_\_\_\_\_

Race/ Ethnicity:  White Non-Hispanic  Black Non– Hispanic  Hispanic  
 Asian/ Pacific Islander  American Indian/ Alaskan Native



## To Join a Class Mark the Group(s) you are registering for:

- |  |  |
|--|--|
| <input type="checkbox"/> <b>STEM Fun 1 4:00</b> <b>\$100</b><br>Grades 4-5         | <input type="checkbox"/> <b>CSI (Crime Scene Investigation) \$100</b><br>Grades 8-12 |
| <input type="checkbox"/> <b>STEM Fun 1 6:00</b> <b>\$100</b><br>Grades 4-5         | <input type="checkbox"/> <b>STEM Jr. Solar Sprint \$25</b><br>Grades 5-8             |
| <input type="checkbox"/> <b>STEM Fun 2</b> <b>\$100</b><br>Grades 5-8              | <input type="checkbox"/> <b>Raspberry Pi \$100</b><br>Grades 8-12                    |
| <input type="checkbox"/> <b>Intro to Robotics &amp; Program \$75</b><br>Grades 4-6 | <input type="checkbox"/> <b>Python Programming \$100</b><br>Grades 8-12              |
| <input type="checkbox"/> <b>Robotics 1</b> <b>\$100</b><br>Grades 6-8              | <input type="checkbox"/> <b>3D Printing \$100</b><br>Grades 8-12                     |
| <input type="checkbox"/> <b>Robotics 2</b> <b>\$100</b><br>Grades 7-12             | <input type="checkbox"/> <b>Engineering Fundamentals \$100</b><br>Grades 5-8         |
| <input type="checkbox"/> <b>Robotics 3</b> <b>\$100</b><br>Grades 8-12             |  |



**Registration Fee** Payment should be included with registration form.

Payment options: check or exact cash. Make checks out to: "Williamson County 4-H."

**Mail or Deliver to:** Williamson County 4-H, 4215 Long Lane, Suite 200, Franklin, TN 37064