# PIERCE DOWNER ELEMENTARY SCHOOL AFTER - SCHOOL PROGRAM

## STEAM
### Science | Technology | Engineering | Arts | Math

**CODING. ROBOTICS. 3D PRINTING. APP DEVELOPMENT. VIRTUAL REALITY. ELECTRONICS**

## Overview

TinkRworks is a new and innovative provider of exceptional and enriching STEAM experiences for children that:

- Foster a love of creating
- Enhance problem-solving skills
- Reinforce and expand upon the concepts and ideas taught in school
- Provide delight and inspire curiosity

## Approach

At TinkRworks, we immerse children in projects with defined objectives—just like the real world!  Using combinations of 21st century skills (e.g., coding, 3D-printing, electronics) and traditional skills (e.g. woodworking, painting) they achieve beautiful results.



### 3rd - 6th Grade: BUILD AND PROGRAM YOUR (RO)BOT

**Project description:** Robots are ever-increasing in popularity for reasons of elevating work efficiency, enhancing safety, and of course, for having fun (e.g., solving Rubik's Cubes)! At TinkRworks, students will learn to appreciate many aspects of robotics, when allowed to design, build and program their own individual robots—from scratch! They'll spend time learning not just about the electronic components, but will code their bots to move, explore, and interact with their environments and ultimately do things that only TinkRers can envision. They will bring together custom-milled wooden chassis, motors, micro-computers, electronics, 3D-printed parts and other materials to assemble, program and customize robots that they can then bring to life! TinkRers will code motion, tricks, lights and sounds to activate with a push of a button on a remote control. Along the way, they will develop STEAM skills and apply their reasoning and problem-solving skills to solve for many challenges.

**Dates:** 9 sessions, once weekly
Mon, Feb 11 – Apr 22 (no class on Feb 18 & Mar 25)
**Time:** 3:00 PM - 4:00 PM     **Price:** $270
**Students take home:**  Fully functional Robot and remote control

## Registration is now open!
### Enroll online at www.TinkRworks.com or call us at 630-819-8926.