

## Vision of CMS MakerSpace

The Makerspace in the Learning Commons at Centennial Middle School will be a space to foster student-driven exploration by providing kids with materials to try new things and take risks to find their passions. The programming for the makerspace will be driven by student interest, as well as critical thinking skills and problem solving skills.

## Location and Programming

A corner of a Learning Commons at CMS will be furnished with a few taller tables and stools, along with a sign identifying the makerspace. Many different activities and experiences will fill this space, including some crafts where the students can keep their finished products. A rotation throughout the year of activities will keep things interesting and fresh for the students.

The programming for the makerspace will be overseen by the staff of the learning commons, but the proposed schedule of events will be driven by input from the Parent Support Organization, students, and other staff. Some of the activities will allow for guided demonstrations, or maybe even an “expert” who comes in over the students’ lunches.

## Possible Makerspace Activities

Crafting/Art	Digital Crafting/Technology/Building
Knitting Crocheting Sewing Needlepoint Embroidery (Thread or Ribbon) Cross Stitch Quilting T-shirt refashioning/Project Runway challenges Origami Quilling Paper airplanes and gliders Duct Tape crafts Sock Puppets Rainbow loom	Animation (GoAnimate.com, Xtranormal.com) Comic-making (Pixton.com, Makebeliefcomix.com) Digital Storyboarding Photo Editing (Picmonkey.com, pixir.com) Stop Time Animation (MyCreate app) 3Doodler Pen Makedo 33-piece Free Play Kit Teknikio Kits Bare Paint-Conductive Paint K'nex Legos-Lego Robotics (Mindstorms) MakeyMakey Elenco Snap Circuits littleBits Electronic Kit Squishy Circuits Take Apart Tech
Cooking	Writing

Make Fresh Salsa Make Smoothies Cookie Decorating Cake Decoration Cupcake Wars Freezer Jam	Choose Your Own Adventure Six-Word Memoirs NaNoWriMo (National Novel Writing Month) PiBoldMo (Picture Book Idea Month) DIY publishing (Lulu, CreateSpace, Smashwords, Scribd.com)
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### **Items to be purchased**

To prepare the space for use, work tables and a few stools will be purchased to create a space for students to work. Another need to get the space up and running include a laptop and an iPad to facilitate some of the technology components of the activities. Kits and supplies for the activities listed above will be purchased after the programming has been decided on with the help of the PSO.

### **Benefits**

The Makerspace will be another area where students can work and create in the Learning Commons. The Makerspace fosters 21st Century Skills, which are communication, collaboration, critical thinking, and creativity. This space will allow all students an opportunities to explore interests not offered during the course of a regular school day. A makerspace in the learning commons will allow the students to have a space to be creative in an educational setting.

### **Future Plans**

The future of the makerspace offers many possibilities. The activities for the students are endless, and some of the activities would encourage community members to participate in the space. Some ideas include having “expert lunches”, where students can spend their lunch period learning about an activity or topic. Service Learning projects could also stem from the makerspace, where students are solving problems and helping out in their own community.