

The Forestview Makerspace!

We have many stations for exploration, creation and fun for students!!
Some stations have take-away products, some are hands-on experiments, and some are challenging games!

Here's how the makerspace works:

Teachers: Give students some time to look through the FMS Makerspace website. It is helpful if they have an idea about any projects they'd like to try. Since many stations have video directions, you may want students to bring their Chromebooks with them. A spreadsheet on the back of this handout, includes slots for student names.

Students: Make sure you read the directions (or view the video) that are posted online and at the stations. When you are done, please clean up your area so it's in shape for the next group.

You can leave your project in one of the slots in the cupboard by the door, if you want to get it or work on it later. Put your name on a post-it and stick it to your project.

Have fun!

Some notes:

- The spreadsheet that follows lists how many students can comfortably fit at a station.
- Most of the stations don't require extensive knowledge to operate, but the Build-a-Computer and Cricut stations can be difficult for those who can't read/follow directions with ease.
- Basic directions are posted near each station.
- The float stations are found on the far counter in the boxes. Students may sit anywhere to play/create with these activities.
- Supplies are found in the tall cabinet (on the right) at the far end of the room.
- Please make sure kids pick up and put materials away at the end of your session.

Stations	#/Station	Time Needed	Skills Needed	Names
Green Screen Video	2+	15+ minutes	Basic - touch screen, play, record	
Stop Motion Animation	2	20+ minutes	Basic - computer use	
Virtual Reality Explorations	2	20+ minutes	Basic - tablet use	
AR Sandbox	6+	No specific time	None	
Snap Circuits	6	15+ minutes	Some understanding of toy construction	
Build-a-Computer	3	20+ minutes	Basic - some understanding of computer construction	
3D Printing	1-2	20+ minutes	Medium - understands how to use basic CAD software	
3D Pens	4	15+ minutes	Medium - drawing in 3D	
Mazes - Turning Tumble, Marble Maze, Whiteboard maze.	2+	15+ minutes	None	
Paper Crafts	2	20+ minutes	Following printed directions	
Duct Tape Projects	4	20+ minutes	Following printed directions	
Sphero	2	20+ minutes	Follow printed directions	
CriCut	1-2	30 minutes	Following video directions	
Magnetic Poetry	1-2	10+ minutes	None	
Action Video (Go-Pro type camera)	1+	10+ minutes	Basic - how to shoot video with a camera	

Descriptions of the Makerspace Stations

Stations	Description
Green Screen Video	Students use an ipad to record a short video, using a green screen to insert interesting backgrounds.
Stop Motion Animation	A special camera and software is used to create stop-motion video with paper, clay or small objects.
Virtual Reality Explorations	Use a VR headset to visit almost any place on earth, under the sea or in space.
AR Sandbox	Watch topographical maps being created in front of your eyes (using a projector and a 3D camera and a specialized sandbox.
Snap Circuits & LittleBits Circuits	Students follow colorful pictures to build electronic projects such as a flying saucer, alarms, doorbells and more.
Build-a-Computer	The Kano computer is an easy-to-build mini computer that shows students the interior pieces of a PC.
3D Printing	Students create a small object using easy CAD software. Printing can take hours, so the project may be picked up later.
Sphero Robots	Use the Edu app to make your Sphero do simple commands like roll, flip, spin, and color change.
3D Pens	Use 3D pens to "draw" small, plastic objects.
Mazes!	Various mazes - Turning Tumble, marble mazes, whiteboard maze
Paper Crafts	Paper-folding and cutting, Manuals are provided. Intricate coloring pages and bookmarks. Colored pencils are provided. Also: Create elaborate spiral designs with a special rotating tool and pencils/markers.
Duct Tape Projects	Build projects with duct tape. Manuals are provided.
CriCut	Cricut Maker cuts hundreds of materials materials quickly and accurately, from the most delicate paper and fabric to matboard and leather.
Magnetic Poetry	Create works of word art using magnetic words on the whiteboard.
K'Nex Construction	K'Nex is a toy construction system.
Action Video (Go-Pro type camera)	Create short videos using a Go-Pro type box camera.

