

Curriculum Makerspace Ideas

6^h Grade Math

(I have not viewed all of these Expeditions and 360 videos in full. So please vet them before showing them to students.)

- 3D printing/designing
 - Project – come up with an equation that predicts how long a print will take based off of the volume or area of a design; draft a design idea using inches then convert to centimeters and then to millimeters (which is what Tinkercad measures in); formulate a statistical question and collect and graph data
- Bloxels
 - Projects - fractions - <http://www.bloxelsbuilder.com/fraction-character-challenge> - could also use with decimals or percentages; reflections across a plane - <http://www.bloxelsbuilder.com/reflection-animation-challenge>, use the Bloxel base as a coordinate plane
- Green screen
 - Uses - video projects, presentations
- Stop motion animation / Stikbot (Miniature green screens coming)
 - Skills - Formulas to figure out number of frames needed to complete a movie a certain length
- Makey Makey
 - Project - Shapes and angles - <https://makeymakey.com/lessons/sort-and-classify-lesson/>
- Osmo
 - Numbers– review, brain break, RTI
 - Words – can create own with vocabulary
 - Tangrams – could create an assignment that ties in angles, shapes, area, volume
- Virtual Reality
 - Expeditions –
 - YouTube 360 Videos –
- Open ended projects – check out some of these or the space and let the students decide