

Curriculum Makerspace Ideas

7th & 8th Grade Science

(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
 - Follow or write a multi-step procedure, all of the engineering standards, recreate or build a model of a concept (i.e. earth's layers, cell)
- Bloxels
 - Projects – Levels depicting climate change, Levels depicting the water cycle, Levels representing the layers of Earth, Evidence for Evolution Challenge - <http://www.bloxelsbuilder.com/evidence-for-evolution-challenge/>
- Green screen
 - Uses - video projects, presentations
- Stop motion animation / Stikbot (Miniature green screens coming)
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 - Topics for projects – laws of motion, rock cycle, water cycle
- Makey Makey
 - Project – Lesson 2 Distance Rate and Time , ideas on simple circuit challenges, and more here - <https://makeymakey.com/lessons/lesson-plans.pdf>; Stages of Mitosis - <https://labz.makeymakey.com/cwists/preview/1187x>;
- Osmo
 - Words – can create own with science vocabulary
 - Newton– miniature practice with engineering process, use with laws of motion
- Virtual Reality
 - Expeditions – Wind; Magnetism; The Periodic Table; Into the Cell; Inside a Cell; several on anatomy and different body systems; Rocks, Minerals, and Gems; Fossils; Climate Change; Greenland Ice Sheet Climate Science
 - YouTube 360 Videos – several results when typed in: 360 Cell, 360 Climate Change,
- Open ended projects – check out some of these or the space and let the students decide