

3D Printing for Every Classroom

3D printing has applications across all disciplines. Adding a 3D printer to your classroom instantly expands lesson plan possibilities, creates hands-on-learning opportunities, and prepares your students for a future using this increasingly prolific technology. See just a few of the ways educators are using 3D printing in their classrooms to bring concepts to life!

History

Access a treasure trove of free prints from museums such as the Smithsonian to bring history to life in your classroom. Find reconstructions of everything from dinosaurs to mummies to presidential artifacts, and make history hands-on.

Visual Art

Enliven art history lessons with a miniature or life-size replica of the Venus de Milo or Rodin's "The Thinker". Incorporate 3D printing as a tool in students' creative process.

Literature

Bring the plot to life in new ways. For younger students, educators can print key characters in a story for use in tracing each character's journey to aid in attention and listening skills.

Music

Imagine adding a 3D printed instrument to your band or orchestra. Perhaps a quartet of students playing 3D printed violins to open your next concert? Or working with a creative bunch of students to introduce a brand new instrument to the world.

Mathematics

Create tools for kinesthetic learners, to help them grasp concepts from basic geometry to fractals. 3D printed "manipulatives" create a hands on learning approach and can be tailored to fit your curricular needs.

Chemistry

Tailor print representations of chemical compounds or model building kits to create larger-than-life atoms and molecules in your classroom.

Biology

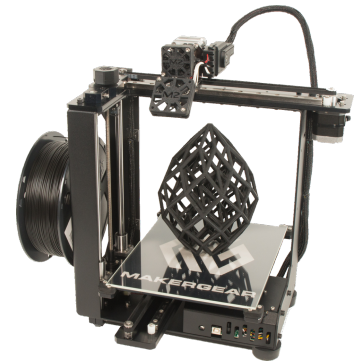
Print cross-sections of human organs for examination, and inspire students to imagine the future of 3D bioprinting technologies. Create models of cells, DNA strands, or even viruses for study. Incorporate kinesthetic learning tools into each core concept you teach.

Geology

From printing fossil specimens for each student to study, to a classroom set of the seven crystal system, to topographical maps for observing erosion, applications abound to suit your lesson plans.

Physics

From simple machines to rocket science, students can print lab materials they design or adapt themselves. Create moment of inertia or acceleration experiments, or test 3D printed model bridges. Hands-on learning is limitless!



The MakerGear M2e is suited for classroom use, is capable of printing with a wide range of filament, and can be modified for your needs.

To learn more about how to bring a 3D printer to your classroom, contact MakerGear at: education@makergear.com

