

10 Resources to Inspire, Engage & Prepare Students

1. **Thingiverse Education** - provides over a hundred free lessons that make teaching with a 3D printer more accessible. It also provides a community where educators can exchange best practices or remix projects. www.thingiverse.com/education
2. **GrabCAD Community** – Access to free CAD models, and to world's largest community, over 4 million, engineers, designers and manufacturers. <https://grabcad.com/library>
3. **GrabCAD Workbench** – A CAD collaboration tool perfect for student groups. <https://grabcad.com/workbench>
4. **Glossary of 3D Printing Terms** – this comprehensive compendium of terms helps students new to the technology have a point of reference. www.stratasys.com/3DLC
5. **TAGs - Technical Applications Guides** - Step-by-step guides created for industry and used by Stratasys tooling customers. These are great tools for simulating and solving real-world challenges. Try one: <http://www.stratasys.com/campaign/resource-guide/composite-tooling>
6. **Extreme Redesign Worldwide Student Competition** – This contest asks students to redesign an existing product to improve how a task is accomplished, or design something entirely new that addresses an unmet need. This is a quest to find the most creative, mechanically sound and realistically achievable design using 3D printing. The Challenge opens every October and entries are due in February. <http://www.stratasys.com/extreme-redesign>
7. **Make Something That Moves Something Curriculum** – This full semester curriculum goes from A to Z – teaching the basics of additive all the way through designing, testing and printing a complex gear system. <http://www.stratasys.com/education>
8. **Engineering's Hottest Project "Drones"** –
Video: Wentworth's Launch Day: <https://www.youtube.com/watch?v=WkKd3v3nWD4>
Lesson & List of Components: http://web.stratasys.com/DroneModule_LP.html
9. **Design Meets Engineering** - University of Minnesota's Product Design Course I Based off of "How to Make Almost Anything" by Dr. Neil Gershenfeld: <http://product.design.umn.edu/courses/pdes3711/pages/syllabus.html>
10. **Stratasys Education Innovation Series** - Subscribe & stay up-to-date with these monthly newsletters from the Stratasys Education team showcasing labs, student work and new innovations - subscribe at <http://www.stratasys.com/industries/education/innovationseries>