3D Printing in the Classroom

Jaz Darden
3D Printing Instructor

Suggested 3D Printers

**Flash Forge
Adventure 3 Lite**

$300

**Monoprice
Mini V2**

$175

Ender 3 Pro

$240

Software

Design Software

Design Software

Slicing Software

Tip: Have a few computers setup with Cura

Recommended Supplies

Laptops – CAD software/Slicing Software
3D Printers
Memory Cards – MicroSD, Jump Drive
Filament (PLA+ from Microcenter)
Wire Clippers
Blue Painters Tape – 3M Brand
Paint Scraper
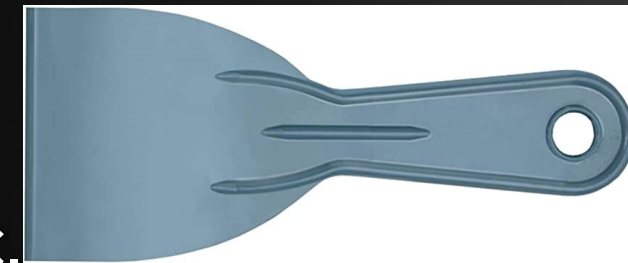Set of small metric allen wrenches
Set of small screwdrivers
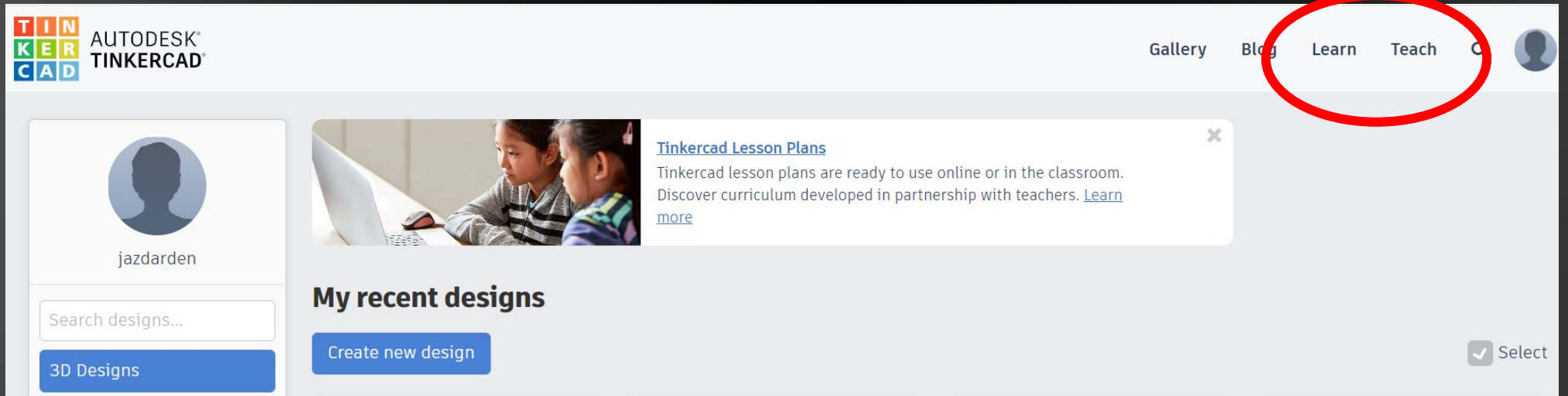Spare parts (ex. nozzles, heater blocks, etc.)
Ruler, calipers
Supplies for projects
Create Caddies or Tool Holders

Tutorials and Projects
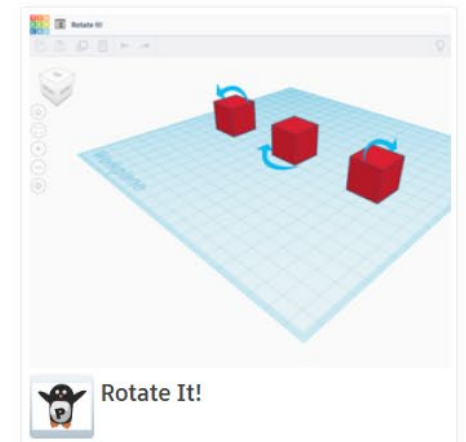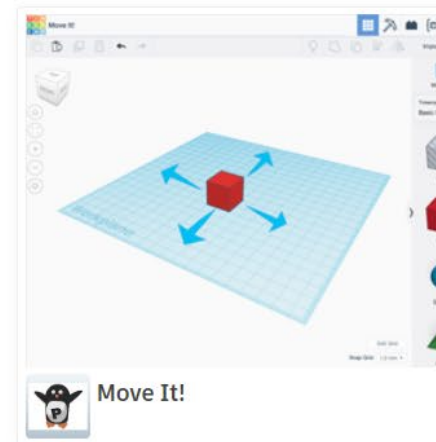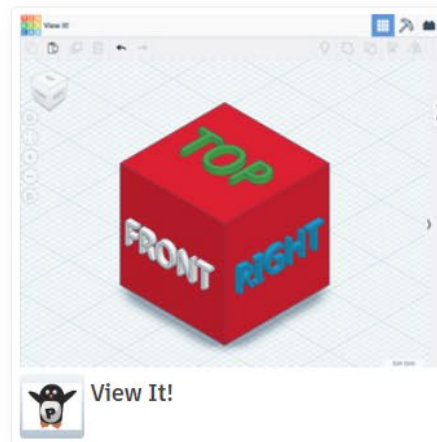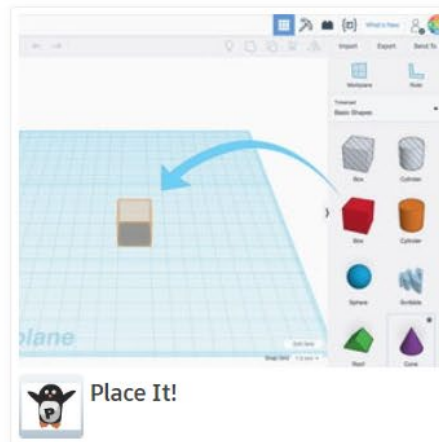
Tutorials and Projects

New to Fusion 360?

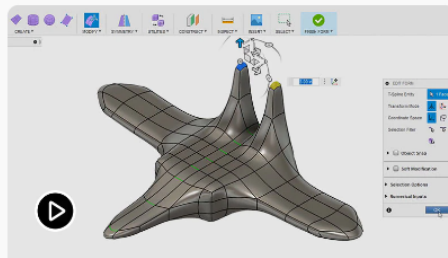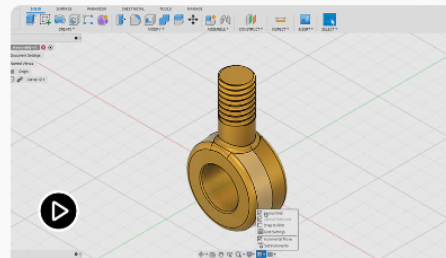These bite-sized videos unpack core concepts like modeling, assembling components, drawing, rendering, managing student projects, and fostering student collaboration in Fusion 360.
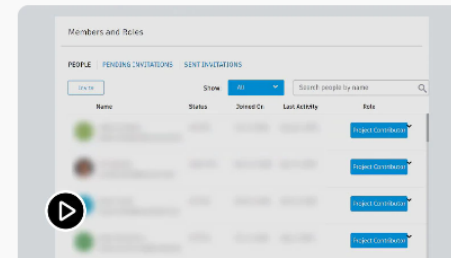
⊕ Download Fusion 360

Introduction to Fusion 360

Explore a high-level overview of Fusion 360's capabilities and classroom applications.
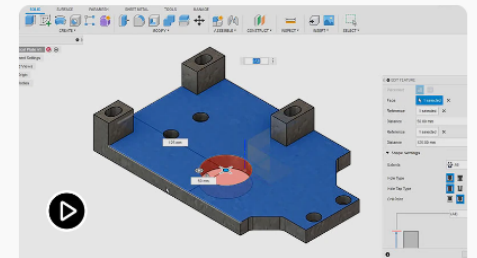
Module 1: Getting started

Review the fundamentals of account setup, user preferences, and display settings.

Module 2: Managing teams

Learn how to create and manage student projects and roles using Fusion Teams.

Module 3: Working with AnyCAD

Learn how to import and manipulate files from other CAD programs in Fusion 360.

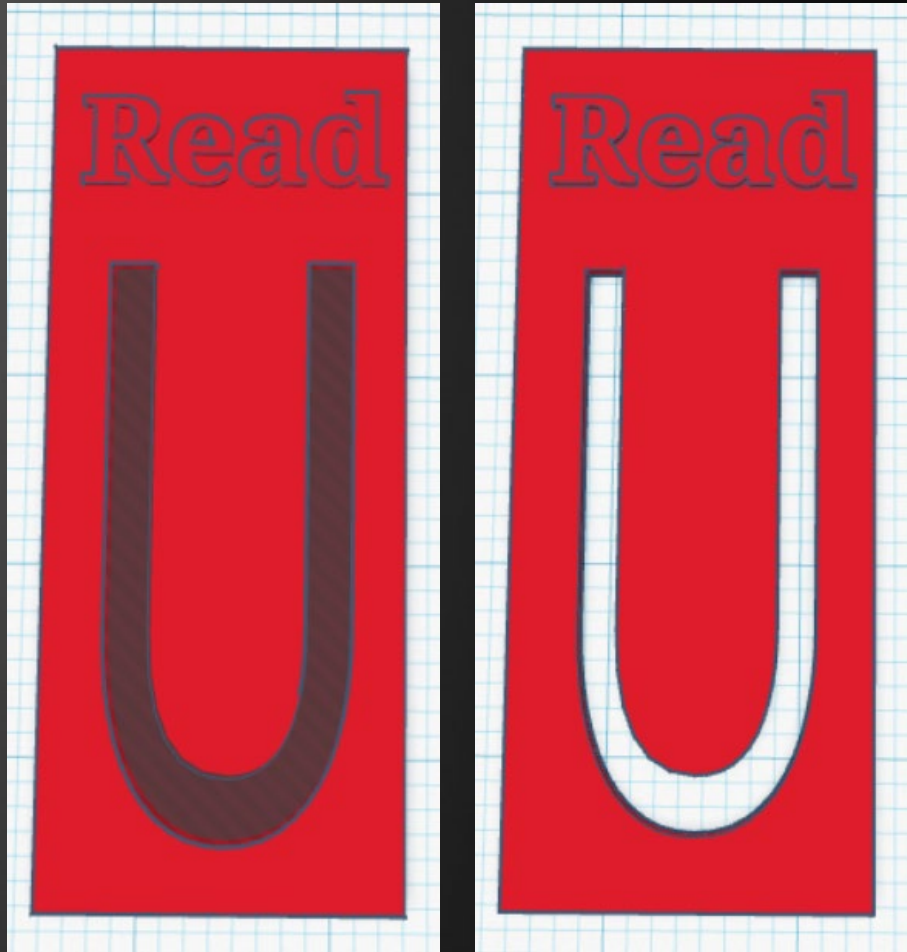# Beginner – Keychain

Rename File

Creating a hole
Adding text
Work plane – 2" x 2"
Flat (quick print)

Beginner – Bookmark

Thin Bookmark
Letter "U" or similar in shape
Add personalization

Intermediate – Boat Challenge

Buoyancy
Shelling
Estimation
Reflect and retry

Intermediate – Tape Dispenser

Reverse Engineering
Assembly
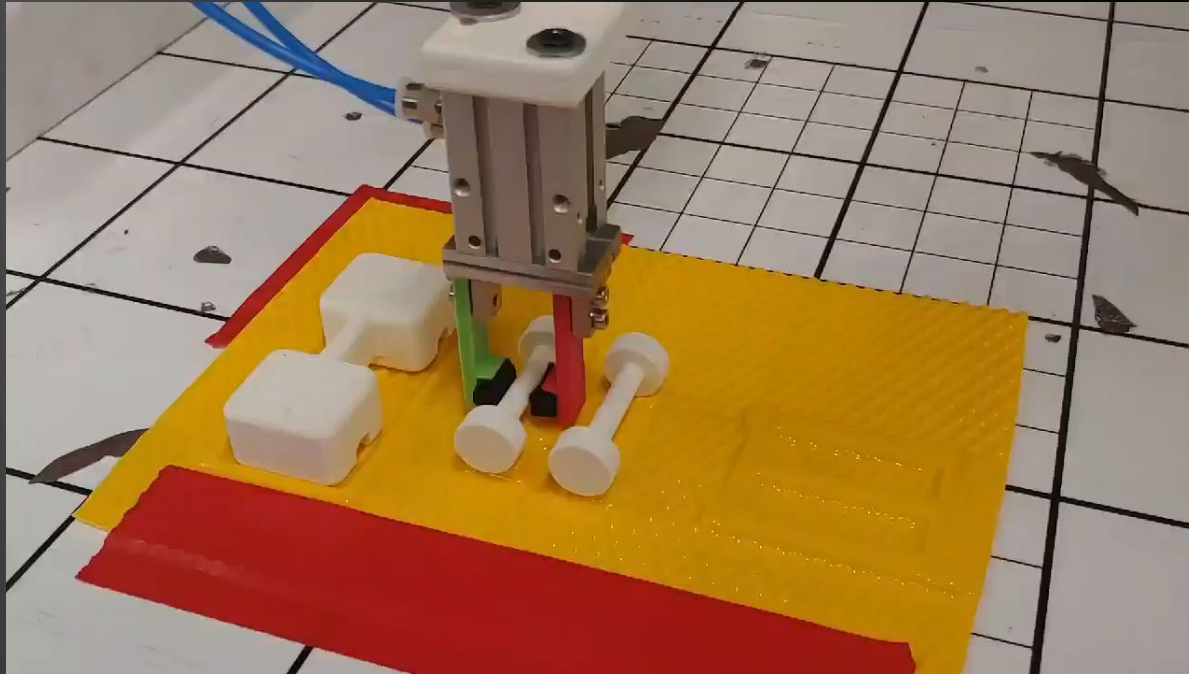Moving Parts
Functionality vs Aesthetics

Beginner/Intermediate/Advanced – Design a Game

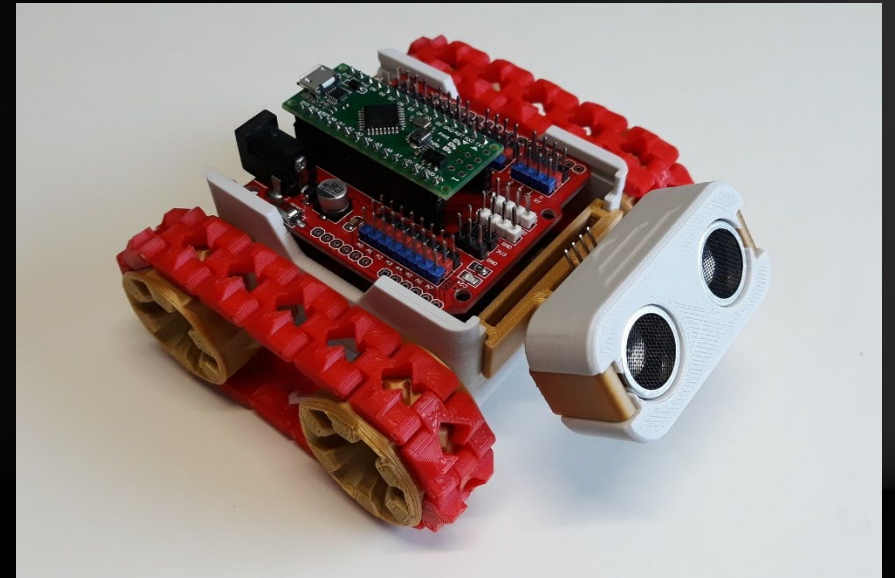Game Design
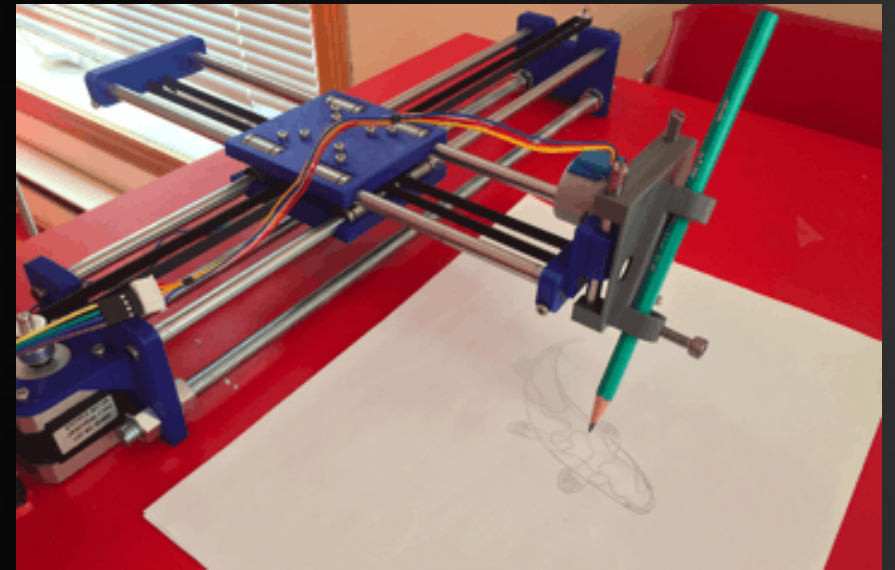Rule Writing
Designing 3D Pieces
Playtesting

PEOPLE OF PLAY
POP
YOUNG INVENTOR CHALLENGE

Reverse Engineering
End of arm tool design
Programming
Teamwork

Advanced – Fully Assembled Projects

Dunwoody College Foosball Table

Jaz Music Box – 3D Printed Bluetooth Speaker

CAD – 3D Modeling
3D Printing
Soldering
Electronics

Questions?

Aspire to Create.
Create to Inspire.

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