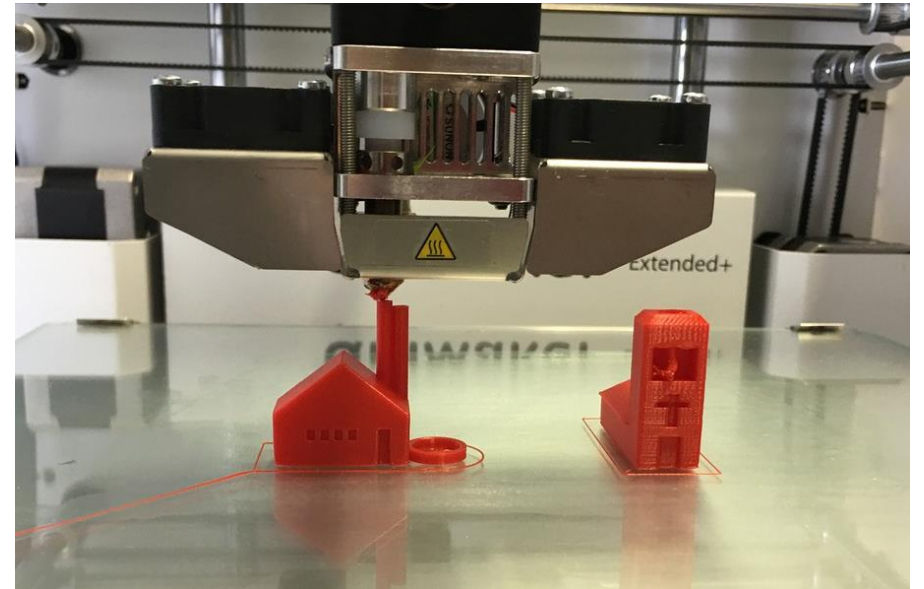# 3D MODELING IN THE CLASSROOM

Dr. Nicole Caldwell
Autism Specialist
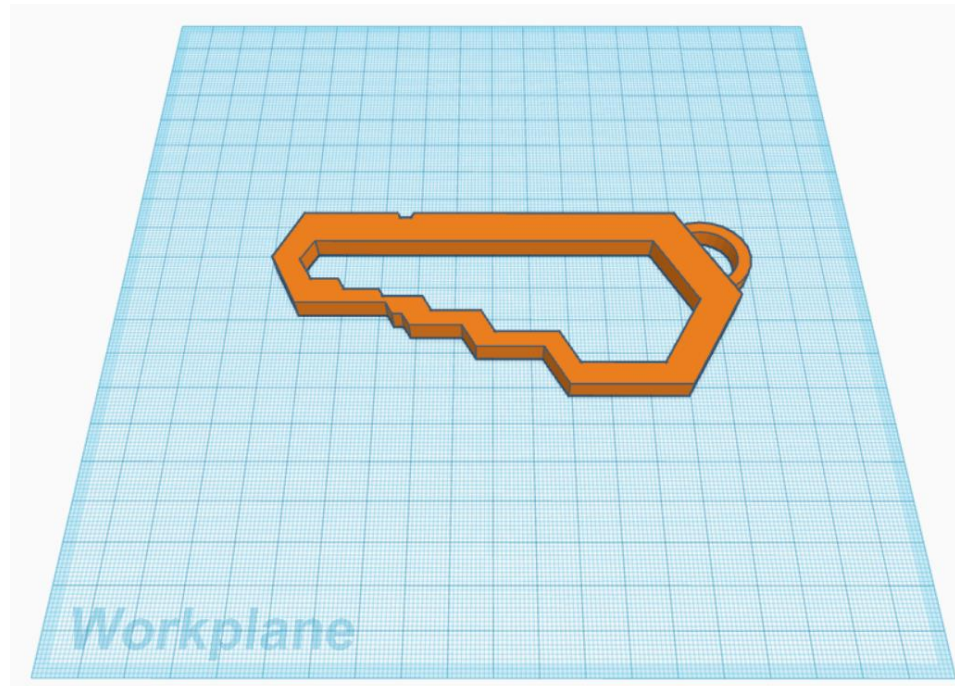Math and Science Tutor

WHAT IS 3D MODELING AND DESIGN?

- Designing digital objects in a 3D workspace.

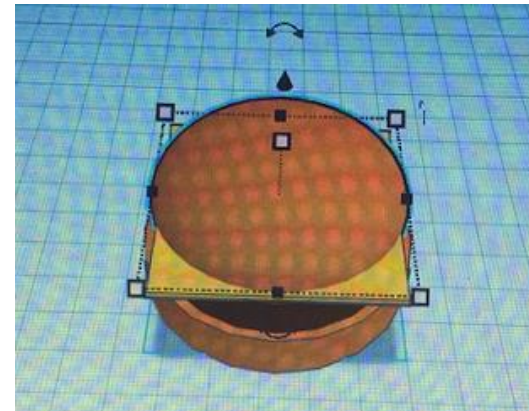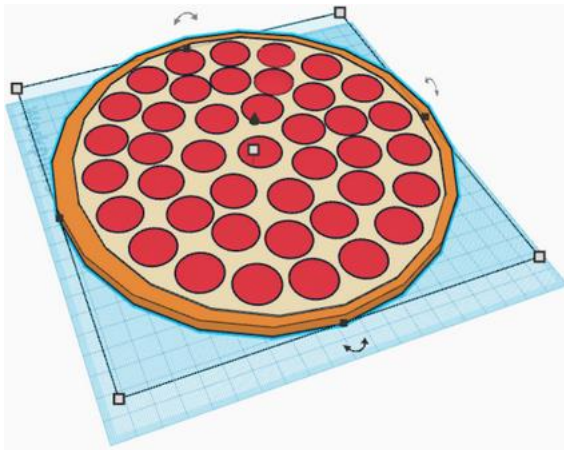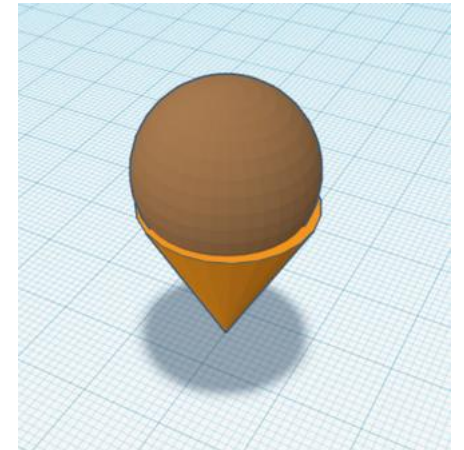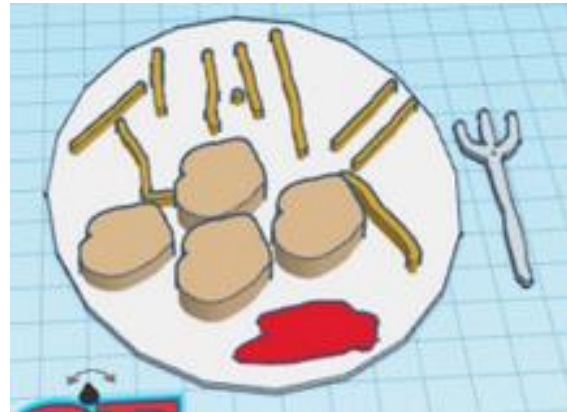- Objects designed can be 3D printed.
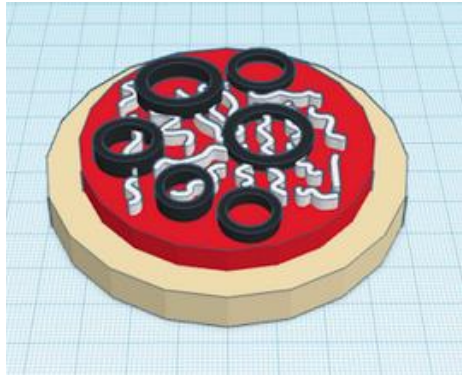
- Can be used for prototyping.

WHY TEACH 3D MODELING AND DESIGN?
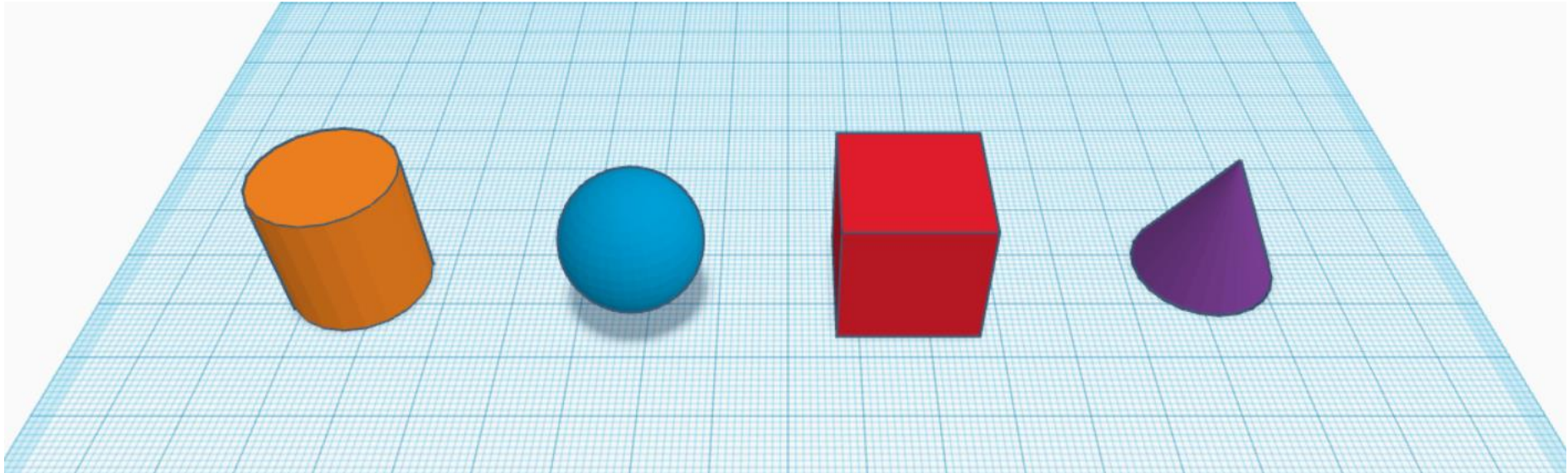
Improve visual-spatial skills

WHY TEACH 3D MODELING AND DESIGN?

Problem-solving and creative thinking

WHY TEACH 3D MODELING AND DESIGN?
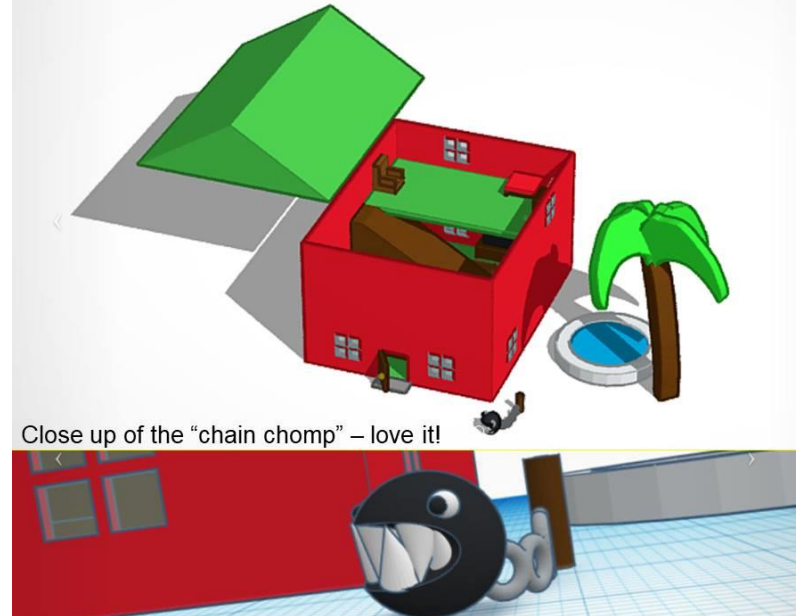
Learn names of 3D shapes

WHY TEACH 3D MODELING AND DESIGN?

Pre-vocational skill

Windows on a house model made by one of my students using the program Sketchup.
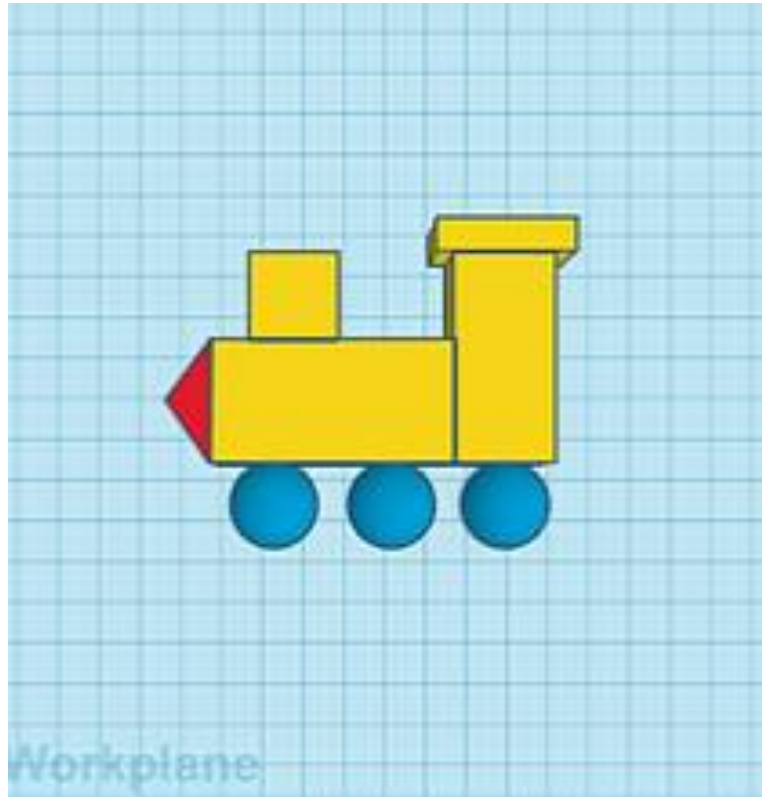

A final project made by one of the students in my "Intro to 3D Modeling and Design" class.

Close up of the "chain chomp" – love it!
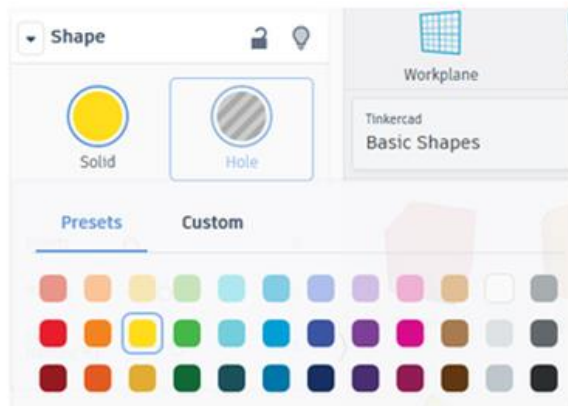
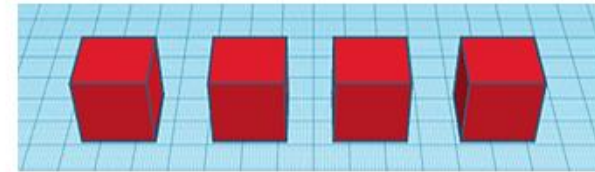# WHY TEACH 3D MODELING AND DESIGN?

Reward/reinforcer

WHY TEACH 3D MODELING AND DESIGN?

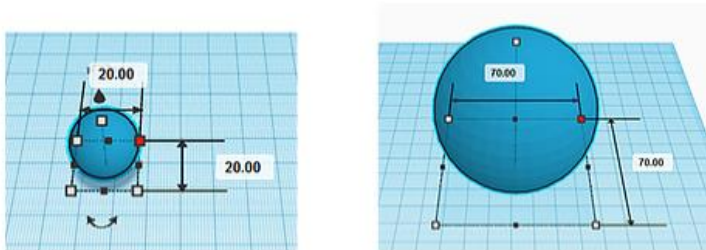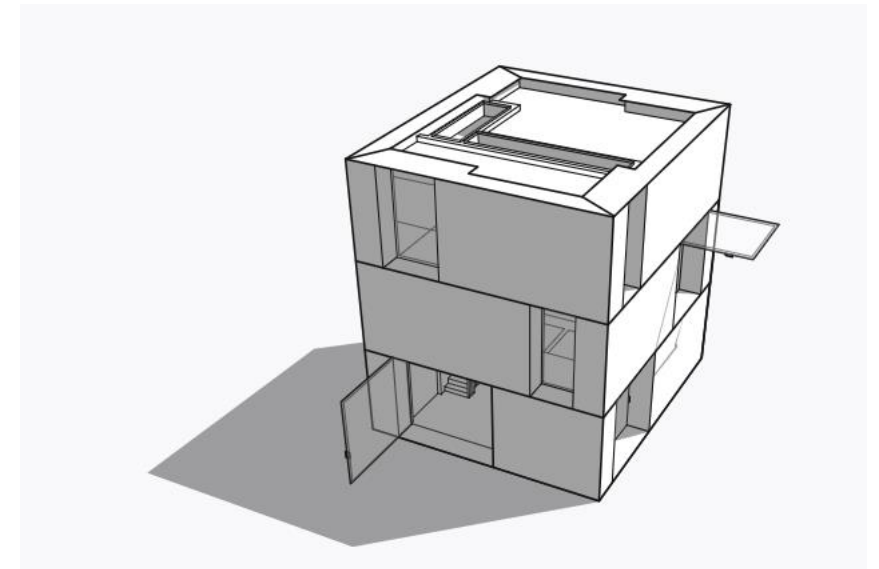Colors/shapes/letters/numbers/prepositions
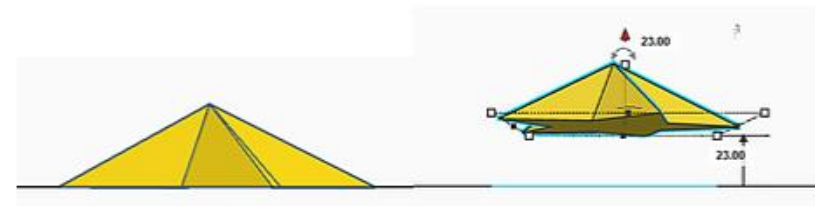
A FEW OF MY FAV 3D MODELING PROGRAMS

TinkerCAD

Sketch-Up

ADDITIONAL RESOURCES

- Using 3D Modeling to Teach Language and Communication Skills: https://www.autismhomeschoolsuccess.com/single-post/2019/07/26/Using-3D-Modeling-to-Teach-Language-and-Communication-Skills

- Science, Technology, and Vocational Skills for Students with Autism Facebook Group: https://www.facebook.com/groups/1615841168578319/

- My online classes for middle and high school students: https://www.autismhomeschoolsuccess.com/online-courses-for-high-school-stud