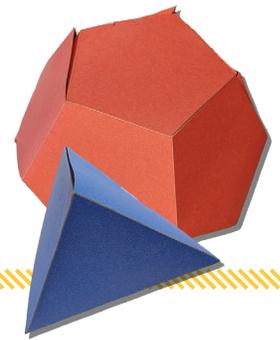


Stereocraft

3D shapes for sharing evidence.

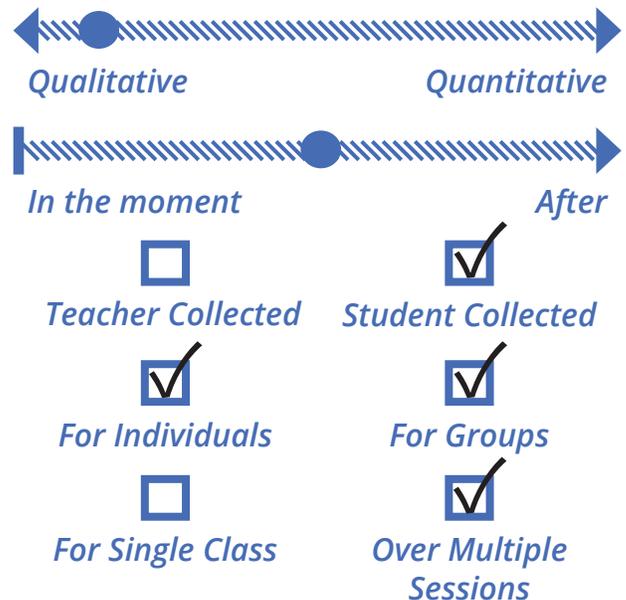


Overview

Stereocraft are multi-dimensional paper shapes that allow students to capture evidence of Maker Elements on the faces. Students transform a flat piece of paper (or other material) into a 3D shape that shows evidence of the Maker Elements students demonstrate. At the start of a class period, the flat shape may prompt students to set goals or show evidence for a particular Element. Then, as students carry out an assigned activity, they record evidence of demonstrating the Elements on each face of the shape as words, images, or collage. Once every face is filled with evidence, it can be folded into a three-dimensional shape and used as a storytelling device to reflect on the making process. Teachers, students, and other stakeholders can start seeing the many ways that Maker Elements can manifest in student work, develop a better understanding of each Element, and reflect on the progress students make through repeated use of the tool.



Evidence Collection



Well Suited For

- A larger, ongoing project so that students may capture data over time.
- Projects with natural opportunities to pause without interrupting student flow.
- Projects where student decisions may be less visible to teachers or peers (e.g. on a computer).

Before Class

- Preparation Time: 10-30 minutes
 - Materials: Printed or pre-cut Stereocraft shapes, writing and drawing tools, scissors, tape, other craft materials including stickers, post-its, stamps, etc. (optional).
1. Select a shape (cube, tetrahedron, or dodecahedron). More sides provide additional surfaces for student documentation.
 2. Edit or delete prompts on each side of the template. You may use these prompts to provide more or less scaffolding for the students on what to collect.
 3. Print or pre-cut shapes. You may print shapes on standard letter-size cardstock and have students cut them out, or pre-cut using a laser cutter or cutting machine (such as a Silhouette Cameo or Cricut). Have a few extras in case a student wants to start over!

During Class

1. Introduce how to use the tool at the beginning of class when using for the first time. Here are some tips to get you started:
 - Start with a simple shape (the cube) and a single Maker Element the first time you use Stereocraft, and work to more complex shapes and multiple constructs.
 - Have a conversation about how their 3D model better represents their maker process than a single letter participation grade.
 - Provide models or examples of the type of evidence they might collect and the expectation that they'll get better at collecting evidence over time, just like they get better at making.
 - Provide the instruction to add evidence to the flat shape (during or after the activity) and assemble into a 3D object after adding all the evidence.
2. Have students document evidence and reflections (through writing, drawing, collage, or bricolage) on the inside or outside of the box.

3. Photograph flat shapes for easy documentation.
4. When all faces are filled or when the project is complete, have students assemble the 3D shapes.
5. Have students use the completed Stereocraft shapes to share the story of their making process. The shapes can be displayed alongside the students' projects, or brought home to share the learning with families!

Extend, Adapt, Remix!

This guide is just the start! We encourage you to adapt the tool to your context: use your own assessment constructs, adapt for your classroom routines and procedures, or co-design new versions with your students!

Here are a couple of ideas we've seen to get you thinking:

- Provide materials to attach multiple shapes together (such as velcro or magnets) so students can document moments of collaboration and connection.
- Incorporate instant cameras (such as Instax) so students can include photos as part of the evidence.
- Incorporate LEDs, copper tape, or other paper circuit materials so students can further elaborate their reflections.
- Finish a project with a story circle, where each student uses their Stereocraft to share their process alongside their finished project.

We want to hear from you!

The Beyond Rubrics tools are a work in progress that we want to improve. If you try out a tool and you love it, please let us know! If you try it out and you find it frustrating, design a better version, or have specific feedback, let us know that, too!

For more information, visit our website or reach out!

Project Website: makered.org/beyondrubrics

On Twitter: @MakerEdOrg & @playfulMIT