

## Cookie Cutters

Shared by: Sarah Leadbeater, Newburyport High School

Specialized tools/technology used:	Experience level required:
3D printer	Beginner
3D modeling software such as Tinkercad	Beginner
Cookie dough or modeling compound	Beginner

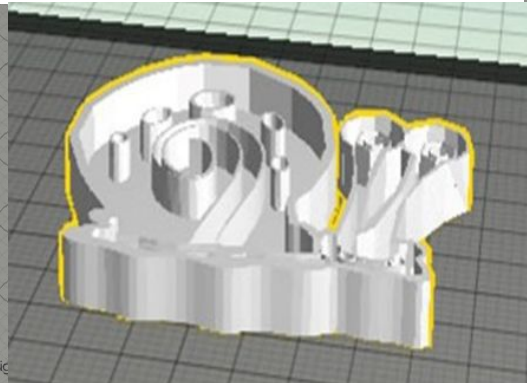
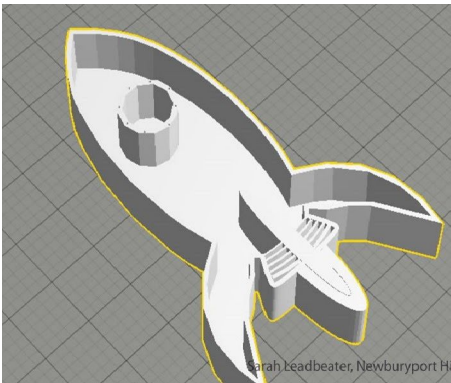
**Grade Level** (of this example): 3-12

**Content Standards** (of this example): Math, Art, various

### Summary of Project:

Students design and 3D print cookie cutters of meaningful characters or objects, or in pie-slices to understand fractions better. They work individually or in small groups they design the cookie cutters on TinkerCAD or other 3D modeling program. The cookie cutters can be used to make shapes in a variety of materials from cookie dough to modeling compounds such as clay, Play-Doh, or Model Magic.

Presentation with real cookies is of course encouraged!



**Possible Content Exploration for Math:**

Students can get a feel for fractions by creating pie-like cookie cutters in Tinkercad, 3D printing them, then using the cutters with Play-Doh or modeling clay to create and compare different fractional amounts.

Check out the Cookie Cutter Fractions Instructable at

<https://www.instructables.com/id/Understanding-Fractions-With-Cookie-Cutters/>

This lesson aims to teach students how to understand fractions through the concept of splitting something equal-sized into a different number of parts.

