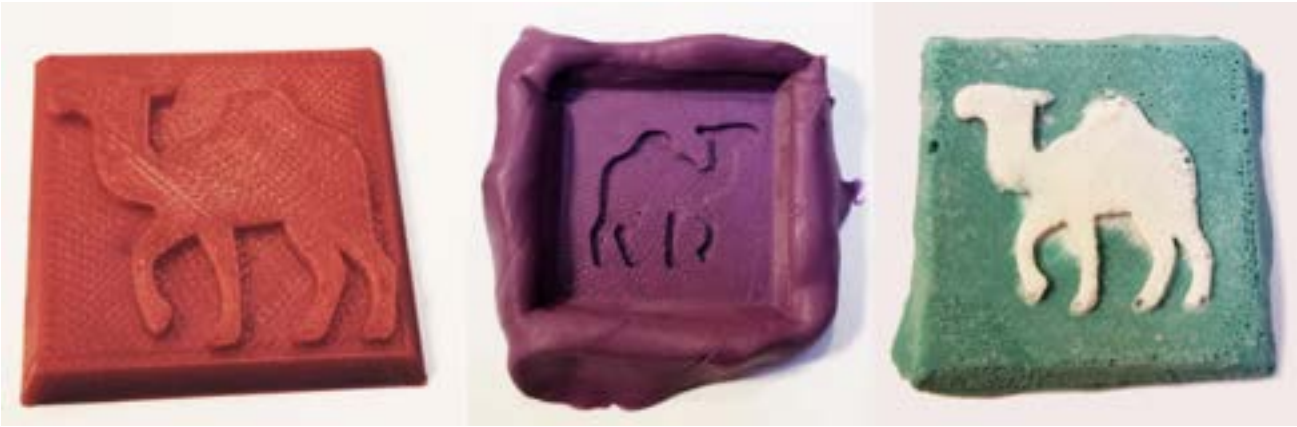
# Candy Casts and Chocolate Molds

**Shared by**: K-12 Maker Lab at MIT Edgerton Center

| **Specialized tools and materials used:** | **Experience level required:** |
|---|---|
| 3D modeling software (such as Tinkercad) | Beginner |
| 3D Printer and filament | Beginner |
| For candy:<br>- Colored candy melts or chocolate suitable for melting<br>- Lollipop sticks or popsicle sticks<br>For non-edible figurines:<br>- hi-temp hot glue, candle wax pellets, crayons, or plaster | Beginner |
| Food-safe, fast set, Silicone molding compound (e.g. “Easy Mold” by Castin’ Craft. A one pound kit costs ~$30 and can be used to make about 12 - 16 molds for 1.5” square candy) | Beginner - intermediate |
| Electric skillet and/or pot, slow cooker, or chocolate melter | Beginner |

**Grade Level and Subject** (of this example): 5th Grade

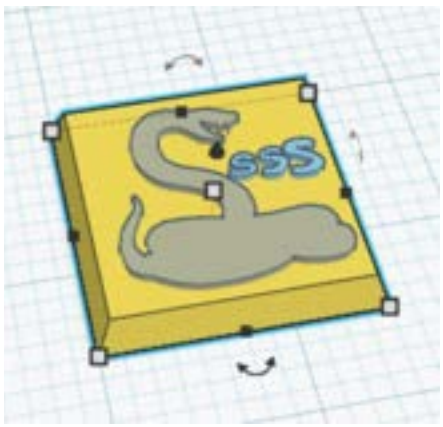
**Topic/Content Standards** (for this example): Geography, Biology

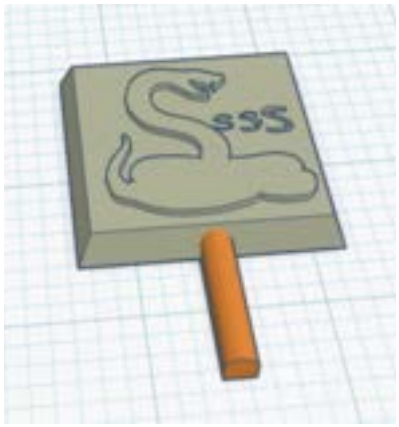


**Summary of Project:**

This project incorporates 3D modeling and chocolate or candy modeling into one delicious project. Students utilize 3D modeling software such as Tinkercad to design molds into which they can pour chocolate, candy melts, or nonedible materials like hot glue or

crayons. Their final products must be able to be unmolded in one piece, and should feature embossed or debossed design elements. For complete instructions, visit our instructable at www.instructables.com/Candy-Casts/





**Suggested resources**

- K12 Maker Lab Instructable for this project: https://www.instructables.com/Candy-Casts/

**Possible Content explorations**

- **ELA:** Develop a promotional candy or item with artwork that students can use to market a work of literature, complete with narrative packaging.
- **Math:** Students practice measurement and quality assurance by designing items with stringent specifications: Minimum/maximum volume; Specific mass (e.g. every piece must be within .8-1.2 oz and show predictive calculations based on design)