Rubber Stamps with 3D Printed Models

Shared by: K-12 Maker Team

Specialized tools and materials used:	**Experience level required:**
Reusable rubber (like ComposiMold)	Beginner
Microwave and heat safe dish	Beginner
3D printer and modeling software (Tinkercad)	Beginner/Intermediate
Washable ink	Beginner

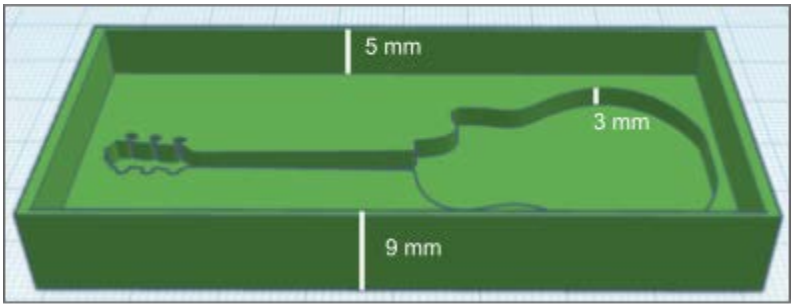
Grade Level and Subject (of this example): 5th Grade

Topic/Content Standards (for this example): History and Social Science - building content knowledge about the narratives of United States history

In Fifth Grade Social Studies, students worked in groups to create stamp collages featuring symbols from major social movements in American history studied throughout the year. This group depicted the 1960s Civil Rights movement.

Summary of Project: Students created a custom stamp using reusable rubber (ComposiMold Original Reusable molding material). The mold is designed in Tinkercad and 3D printed. ComposiMold was heated and carefully poured into the 3D printed molds. Students unmolded the rubber and attached it to a base using double-sided tape or white glue.

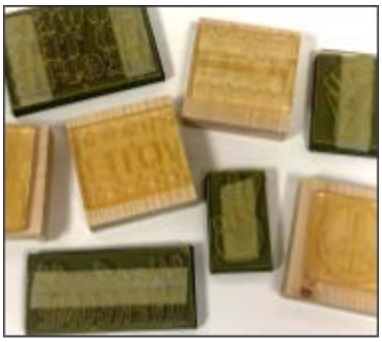
Students use the stamps and washable ink pads to create scenes or collages. In their presentations, students explained the meaning behind the symbols they chose. When finished, the rubber was remelted for another project.



suggested depth measurements

Pouring the melted rubber from a microwave safe dish into 3D printed molds

Same design embossed and debossed



Attach bases using white glue or double sided tape

Stamps can be remelted and reused for future projects

Possible Content explorations

Literacy: Collaborative word-building with morpheme stamps

Math: Create math symbol stamps for use in class. Create stamp artwork that meets geometric constraints.

History & Social Studies: Stamp collage of objects, structures, or ideas related to a particular movement, culture, city, religion, etc., or depicting solutions to a problem