

# SCIENCE OF SCULPTURE

IDEAL FOR GRADES 4, 5, AND 6

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**Lexi Rodriguez**

## DESCRIPTION

Experiment with making sculptures out of papier-mâché! It's a fancy looking word, but it means paper pulp or literally "chewed paper." Don't worry, you probably have everything you need right in your own home. Step into the kitchen with Lexi and check out the differences between two recipes. Experiment on your own, and mold your pulpy mixture into animals or masks, let them dry and voilà!

## DISCUSSION

- What type of sculpture design works better for smooth papier-mâché vs. the rougher, chunkier kind? Why do you think that is?
- What do you think happens to the paper in both recipes to turn it into a moldable substance? Which ingredient (besides the actual paper) is most important to the recipes and why?

## SAMPLE TN STANDARDS

### Science

6.ETS1: Engineering Design

### Social Studies

6.37 Explain the major accomplishments of the Han Dynasty, including: the magnetic compass, paper making, porcelain, silk, and woodblock printing.

### Fine Arts

6.VA.R1.B Identify and interpret works of art that reveal a variety of world cultures and values.

## MATERIALS

### Chunky Recipe:

- Lots of shredded paper
- Flour
- Salt
- PVA glue (white glue)
- Hand mixer (Optional)
- Measuring cups
- Spoon/Spatula
- Mixing bowl
- Paint and paintbrush

### Smooth Recipe:

- Toilet tissue
- Measuring cups
- Drywall joint compound (not DAP brand)
- Hand mixer
- Spoon/Spatula
- Paint and paintbrush

