



# MILKY SOAPY ARTWORK

At Home Edition - #MCMAtHome

You've probably heard of the experiment you can do with a little bit of milk, food coloring and soap. But did you know you can turn this into inspiration for beautiful artwork? We'll explore the science behind the experiment, and then use the beautiful blending of colors to inspire wonderful artwork.

## Set Up:

- Gather materials: Plate, milk, food coloring, cotton swab, soap
- Pour enough milk on the plate to cover the bottom.
- After the milk has settled, carefully add drops of differently colored food coloring. Place the drops in the center of the plate; the drops should be close to one another but not quite touching.

## The Experiment:

- Dip a cotton swab (Q-tip) in dish soap.
- Predict what will happen when you touch the soapy cotton swab to the center of the milk.
- Now touch the milk with your cotton swab – be sure not to stir, just dip it.
- Was your prediction correct?
- Repeat until the food coloring stops moving.

## The Science:

- Milk contains a small amount of fat molecules.
- The fat molecules are attracted to the soap molecules – so when the soap is introduced to the milk, they twist and bend and dance around trying to connect.
- While the fat and soap are trying to be friends and connect, the watery food coloring is pushed out of the way creating a beautiful masterpiece.
- The food coloring allows you to see what happens when soap and milk are combined.

## The Artwork:

- Now that you've performed the experiment, use what you created in the milk to inspire a masterful art piece! Use whatever materials you have at home to create something fantastical. If you would like, use the food coloring and milk as your paint!

**Want more?** Check out our **Egg Drops** activity sheet for more exciting ways to experiment at home! Be sure to take pictures or videos and tag #MCMAtHome