

Featured Project:

Magic Milk!

The **magic milk** science experiment is a classic for kids of all ages. Using common, nontoxic kitchen supplies, participants will create vibrant art while learning about the science behind the swirling colours that truly makes this experiment magical.



Materials Needed:

- Milk (2% or whole works best)
- Food colouring
- Dish soap
- Cotton swabs
- Glitter (optional)
- Baking dish or plate



Time to Make: 5 minutes to create,
10 minutes to explore

Instructions:

1. Pour milk into a baking dish or another flat bottom surface like a plate. You don't need a lot of milk - just enough to cover the bottom and then some.
2. Fill the top of the milk with drops of colour! Go ahead and mix them all up. Go ahead and throw some glitter in there too, but that's optional.
3. Pour a bit of your dish soap into a bowl, touch your cotton swab tip to the dish soap to coat it. Bring it over to your milk dish and gently touch the surface of the milk with the soapy cotton swab. What happens?

Magic Milk Explained:

Milk is made up of minerals, proteins, and fats. Proteins and fats are susceptible to changes. When the dish soap is added to the milk, those molecules run around and try to attach to the fat molecules in the milk. You wouldn't see this without the food coloring! The food coloring looks like fireworks because it's getting bumped around! The soap heads for the fats creating the cool bursting of color. When there is no more movement, all the fat molecules have been found. Are there any more hiding? Try another cotton swab dipped in soap!

Sources: <https://www.adabofgluewilldo.com/magic-milk-science-experiment/>
<https://littlebinsforlittlehands.com/magic-milk-a-classic-science-experiment-for-kids/>

What is Maker Minute?

Maker Minute is our way of bringing the SDG Library MakerLab to your home! Each week, we'll release a cool activity or experiment that you can do using items from your home. You can share your progress and finished products on our social media pages:

- facebook.com/sdglibrary
- twitter.com/sdglibrary
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We can't wait to see what you'll make next!

