

Curiosity Labs™ by Merck:
glow in the dark slime

in this experiment, you will learn...

- What **coagulate** means
- What **phosphorescence** is

Share your results and tag us! #SPARKCuriosity

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SUPPLIES

- All-purpose glue
- Liquid starch
- Glow in the dark powder
- Mixing bowl
- Sealable plastic bag

Instructions

STEP 1

Pour 3 tbs (50 mL) all-purpose glue into the bowl.

STEP 2

Add ¼ tsp (1 mL) glow in the dark powder to the glue and mix together until the glue is fully colored.

STEP 3

Slowly add ¼ cup (60 mL) of liquid starch and continue to stir.

STEP 4

Let everything sit for 1-2 minutes to allow the mixture to **coagulate**.

STEP 5

Transfer the slime to a sealable plastic bag and continue to mix inside the bag.

STEP 6

Once everything is completely mixed together, turn out the lights and check out your glowing slime.

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FUN FACTS

Coagulate is a verb or an action word. It means to cause a fluid to change to a solid or semisolid state. It was important to allow all the ingredients to coagulate so it would create the correct state of matter for the slime.



WHAT HAPPENED?

The phosphorus inside the glow in the dark powder captures the light and then releases it in the dark. This process is called phosphorescence. The more light that the slime can capture, the longer it will glow in the dark.