

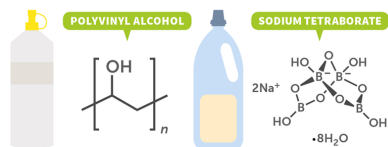
The Periodical

THE CHEMISTRY OF SLIME

The slime-making craze is sweeping schools and homes worldwide. Here, we investigate the ingredients and science behind slime's gooey properties.



MAKING SLIME



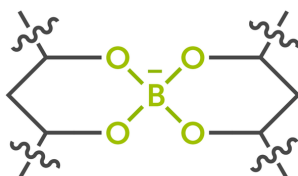
Most slime recipes use a combination of PVA glue (which contains polyvinyl acetate and polyvinyl alcohol) and laundry detergent (which contains sodium tetraborate decahydrate, or borax). In the European Union, where borax is not part of detergents, people use borax-containing contact lens solution.



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Slime image © Shutterstock

SLIME'S PROPERTIES

Tetrahydroxyborate ions form cross-links between PVA polymer chains. This creates a three-dimensional network that traps water, creating a semisolid gel.



When squeezed, slime shows viscous behavior because the cross-links between its polymer chains can break and re-form. But slime will break if it's pulled apart abruptly.



Adding acids such as vinegar (acetic acid) to slime destroys the cross-linking, causing it to become a liquid. Then adding a base such as baking soda (sodium bicarbonate) neutralizes the acid, allowing the cross-links and slime to re-form.

Destress this week and make your slime DIY! Good luck with lab finals this week!

Ingredients Needed: 8-ounce Elmer's white school glue, 1 1/2 – 2 Tbs contact saline solution more as needed (or slime activator), 1 Tbs baking soda, and food coloring optional.

Pie A Professor Day!



On May 9th!

We will have Biology and Chemistry Professors participating in this event! The cost to pie your professor is \$5! If you would like to add toppings to the pie, it's \$1 extra!



Friday May 5th !

Chemistry Club will be selling Horchata in the SLC from 12:30pm to 2:30pm! \$2 a cup!

Reminders

Interested in Joining Chemistry Club?

Apply by scanning the QR code below and filling out the form.



SIGN UP TO PARTICIPATE IN STEM DAY!



FOR VILLA BELLA

CSUP WILL BE HOSTING A STEM DAY FOR VILLA BELLA EXPEDITIONARY SCHOOL FOR GRADES 5 AND YOUNGER.

ACTIVITIES WILL TAKE PLACE ON WEDNESDAY, MAY 17TH FROM 9-2 PM WITH 50 STUDENTS PER HOUR SESSION.



USE THE QR CODE TO SIGN UP FOR A TRIP TO THE MOLLIE KATHLEEN GOLD MINE!



Chemistry Club Members!
Please email your schedule for the Fall Semester of 2023 to Chem Club Officers!

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Connect the Dots!!!!

silver sulfide → ammonium hydroxide	sodium bromide → lithium chloride	barium carbonate → silver bromide
iron (II) sulfide → potassium fluoride	barium iodide → lithium nitrate	lithium chloride → silver sulfide
copper (II) sulfide → nickel (II) oxide	calcium sulfide → iron (II) sulfide	nickel (II) oxide → calcium oxide
lead (II) sulfide → barium iodide	zinc sulfide → magnesium nitrate	silver bromide → iron (II) carbonate
ammonium hydroxide → iron(II) oxide	iron (II) carbonate → silver oxide	silver oxide → iron (II) hydroxide
potassium iodide → sodium bromide	iron(II) oxide → calcium hydroxide	calcium oxide → potassium iodide
calcium hydroxide → zinc sulfide	Iron (II) hydroxide → barium carbonate	magnesium nitrate → copper (II) sulfide

