

## PVA polymer slime

### Class practical

A solution of **polyvinyl alcohol (PVA)** can be made into a **slime** by adding **borax** solution, which creates crosslinks between **polymer** chains. In this activity, some interesting properties of the slime are investigated. Students are guaranteed to enjoy the activities involved.

### Lesson organisation

This experiment is easy to set up – providing the chemicals are available, and should take no more than about 30 minutes. It can be done by students in groups of two or three.

Apparatus	Chemicals
<b>Goggles</b> <b>Each working group requires:</b> <b>Beaker (100 cm<sup>3</sup>)</b> <b>Measuring cylinder (50 cm<sup>3</sup>)</b> <b>Disposable plastic cup</b> <b>Metal spatula</b> <b>Petri dish (or watch glass)</b> <b>Water-based felt-tipped pen</b> <b>Spirit-based felt-tipped pen</b> <b>Disposable plastic gloves</b>	Each working group requires: PVA, polyvinyl alcohol, 4% (or 8%) aqueous solution, 40 cm <sup>3</sup> Borax, hydrated sodium tetraborate, 4% (or 8%) aqueous solution, 10 cm <sup>3</sup> Food colour or fluorescein (optional) Hydrochloric acid, about 0.5 M, 20 cm <sup>3</sup> (optional) Sodium hydroxide, about 0.5 M (CORROSIVE), 20 cm <sup>3</sup> (optional) <b>Refer to Health &amp; Safety and Technical notes section below for additional information.</b>

### Health & Safety and Technical notes

[Read our standard health & safety guidance](#)

Wear eye protection, and protective gloves if handling the slime.

Polyvinyl alcohol,  $(-[\text{CH}_2\text{CH}(\text{OH})]_n-)$  - PVA can be high MW (about 120 000) or low MW (about 15 000). If high MW PVA is used, prepare a 4% solution by placing 960 cm<sup>3</sup> of water into a tall 1 dm<sup>3</sup> beaker. Measure out 40 g of high MW PVA and add this slowly to the beaker of water, with stirring. If low MW PVA is used, prepare an 8% solution by placing 920 cm<sup>3</sup> of water into a tall 1 dm<sup>3</sup> beaker. Measure out 80 g of low MW PVA and add this slowly to the beaker of water, with stirring. In each case, heat the mixture gently, stirring occasionally, until the solution clears. Avoid boiling the solution. After cooling, this solution can be poured into suitable smaller containers, which can then be sealed and stored indefinitely.

Borax, hydrated sodium tetraborate,  $(\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O})$  - see CLEAPSS Hazcard. If a 4% aqueous solution of PVA is used a 4% aqueous solution of borax will be required. If an 8% aqueous solution of PVA is used an 8% aqueous solution of borax will be required. Borax solid is now classified as TOXIC because it carries the R60/61 warning – it may cause infertility and harm to the unborn child. The solid and solutions in excess of 8.5% should be labelled TOXIC, but other solutions will NOT carry any hazard warning. Borax solutions as prepared following these instructions do NOT require a hazard label. BUT technicians preparing the solutions need to be alerted to the hazard. CLEAPSS advises weighing the solid very carefully, possibly in a fume cupboard which is not switched on. Pregnant women should avoid handling the solid. Students may want to take the slime home - this

# Pva Polymer Slime Learn Chemistry Rsc Org

**Tabli Ghosh,Ruchir Priyadarshi,Swarup  
Roy**

## **Pva Polymer Slime Learn Chemistry Rsc Org:**

Sustainable Materials for Food Packaging and Preservation Tabli Ghosh, Ruchir Priyadarshi, Swarup Roy, 2024-09-20

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web the same procedure can be applied to finding the volume of a cylinder that is the area of the base of the cylinder times the height of the cylinder gives its volume the bases of the cylinder and cone shown previously are circles the area of a circle is  $\pi r^2$  where  $r$  is the radius of the circle

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web volume of cylinders spheres and cones word problems jackson buys a grape snow cone on a hot day by the time he eats all the snow off the top the paper cone is filled with  $27\pi$  cm<sup>3</sup> of melted purple liquid the radius of the cone is 3 cm

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web to find the volume of a cylinder we multiply the base area which is a circle and the height  $h$   $V = \pi r^2 \cdot h$  a pyramid consists of three four or more depending on the base triangular lateral surfaces and a three or four sided surface respectively

at its base

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web a cylinder s volume is  $\pi r^2 h$  and its surface area is  $2\pi r h + 2\pi r^2$  learn how to use these formulas to solve an example problem created by sal khan

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web dec 13 2021 the height of the cylinder multiplied by the area of the flat circle produces the final volume features of a cone a cone includes a circular base and an apex otherwise known as the highest point of this object the apex sits above the base s center and there is a surface area extending from the apex to the base s border

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web the volume formulas for cones and cylinders are very similar so the cone s volume is exactly one third  $\frac{1}{3}$  of a cylinder s volume try to imagine 3 cones fitting inside a cylinder if you can volume of a sphere vs cylinder now

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web jun 15 2022 surface area surface area is a two dimensional measurement that is the total area of all surfaces that bound a solid the basic unit of area is the square unit for the surface area of a cone we need the sum of the area of the base and the area of the sides surface area of a right cone  $sa = \pi r^2 + \pi r l$  figure pageindex 2

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