



Presented by

BASF
We create chemistry

HOW TO CREATE EGG GEODES

Overview and objective:

With this egg geode experiment, students will discover more about crystallization.

How does it work?

The solute and the solvent (the particles and the liquid they are suspended in) come together to form a *solution*. Crystals form from a solution in this experiment through the process of sedimentation and crystallization.

Procedure:

1. Hollow out a few eggs. Tap around the top of each to remove the shell and then empty the egg through the hole you created. Clean with hot water and carefully rub the inside to remove the membrane. Place into the cupcake pan.
2. Heat half cup of water until nearly boiling. Add a $\frac{1}{4}$ cup of Alum powder and stir to dissolve. Continue to add small amounts of the powder and stir until you reach the saturation point, the point where the water is so saturated it can no longer dissolve it. Add food coloring and then carefully pour the solution into two egg cups.
3. Repeat this process, replacing the alum with borax, Epsom salts and sea salt... and chart, using different food coloring for each solution.



WHAT YOU WILL NEED:

- Mini muffin pan
- Food coloring
- Measuring cups
- Water
- Eggs
- Alum powder
- Sea salt
- Borax
- Epsom salts
- Sugar
- Safety goggles
- Safety gloves
- Adult supervision

SAFETY TIPS:

- *Borax, Epsom salts and alum are not food products. Do not consume and wear rubber gloves while handling.*

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