

FREE DIGITAL DOWNLOAD

How To Grow Sugar Crystals

You Will Need:

- 1 cup of water
- 2-3 cups of white granulated sugar
- 1 clean glass jar
- 1 wooden skewer or popsicle stick
- String
- 1 screw or paperclip
- 1 saucepan (for heating water)
- Optional: Food coloring and flavor extract

Instructions:

1. Prepare the Jar

- Rinse your glass jar with hot water to warm it up. Set it aside.

2. Make a Saturated Sugar Solution

- With adult help, heat 1 cup of water in a saucepan until it boils.
- Add sugar slowly, stirring constantly, until it no longer dissolves (about 2-3 cups total). This creates a saturated solution.
- Optional: Add a few drops of food coloring and/or flavor extract.

3. Set Up the String and Skewer

- Dip the string into the sugar water and then roll it in dry sugar.
- Let it dry – this helps crystals start to grow later.
- Tie a screw or paperclip to one end of the string. Tie the other end to the skewer or popsicle stick.

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**** Science projects must be done with parental supervision ****

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How To Grow Rock Candy Crystals

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- Carefully pour the hot sugar solution into the jar.
 - Suspend the string in the jar by placing the skewer or popsicle stick across the rim. The string should hang straight down without touching the bottom or sides.
4. Pour and Wait
- Place the jar somewhere safe and still. Cover loosely with a paper towel or plastic wrap to keep dust out.
5. Watch It Grow
- Leave the jar undisturbed for 5-7 days.
 - You'll see crystals forming and growing along the stick or string.
 - Once they're big enough, remove the stick and let it dry.

What's Happening:

You've made a supersaturated solution, meaning the water is holding more sugar than it normally can. As the solution cools and evaporates, the sugar comes out of the liquid and forms crystals on the string. This is called crystallization, and it's how real crystals and even some rocks form in nature.

Safety Tips:

- Ask an adult to help with heating the water.
- Have an adult pour the hot water into the glass jar.
- Do not touch or eat the crystals until they are fully cooled and dry.
- Store your growing jar away from pets or small children.

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This carefully curated Supply List features affordable, high-quality materials to help bring science, technology, engineering, and math activities to life. Many of the STEM projects and experiments featured in the **Free Science Projects Downloads** come from the **STEM Activity Pages** and **Ultimate Activity Pages for Kids** – like the *DIY Lava Lamp*, *Invisible Ink*, *Growing Crystals*, and *DIY Smartphone Speakers* – and can be completed with items you may already have at home. However, if you're missing a few supplies, you'll find everything you need here. Each product has been selected for its **great reviews** (4.5 Stars or higher), **affordability** (under \$10), and **versatility across multiple experiments**, ensuring you get the most out of every purchase while keeping learning fun and budget-friendly.

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STEM Activity Supplies For Hand-on Learning

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