



GROWING CRYSTALS

FROM SALT OR SUGAR SOLUTIONS

Crystals form when the particles of a substance come together in an ordered pattern as the water evaporates. You can grow your own beautiful crystals using common salt or sugar!



SALT CRYSTAL



SUGAR CRYSTAL

Name: _____ Date: _____ Experiment #: _____

MATERIALS

- Table salt or sugar
- Hot water
- Clear glass or jar
- Spoon
- String or dental floss
- Pencil or stick
- Paper towel
- (Optional) Food coloring



SAFETY FIRST

- Ask an adult for help with hot water.
- Do not touch the hot water.
- Clean up spills right away.

PROCEDURE

- 1 Fill the glass or jar with hot water, leaving about 2–3 cm from the top.
- 2 Add salt or sugar, one spoonful at a time, and stir until it dissolves. Keep adding and stirring until no more will dissolve and some stays undissolved at the bottom. (This is a saturated solution.)
- 3 (Optional) Add a few drops of food coloring and stir.
- 4 Pour the hot solution into a clean jar if needed.
- 5 Tie one end of the string around the pencil or stick.
- 6 Lower the other end of the string into the solution so it doesn't touch the sides or bottom. The string will hold your growing crystal.
- 7 Place the jar in a quiet spot where it will not be disturbed. Let it sit for several days.

OBSERVATIONS

Draw or write what you see each day.

Day 1: _____

Day 2: _____

Day 3: _____

Day 4: _____

Day 5 (or more): _____

Draw your crystal here!



RESULTS & CONCLUSIONS

What happened to the dissolved salt or sugar?

How did your crystal grow?

What did you learn from this experiment?



SCIENCE
TIP

For bigger crystals:

- Use a very hot, saturated solution.
- Keep the jar in a quiet place.
- Be patient—crystals take time to grow!

