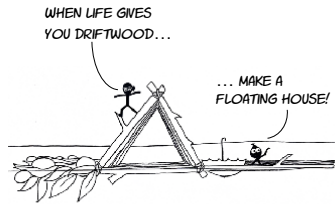


Check out my YouTube Channel!
www.youtube.com/ScienceMom

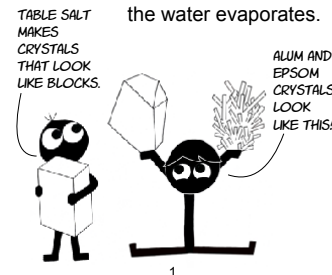
SCIENCE MOM

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SCIENCE MOM'S Guide to WATER, Part 6



When water freezes, it forms a crystal. But water's not the only thing that can make crystals. Most minerals and salts can form crystals, especially if they are in a solution with water and the water evaporates.

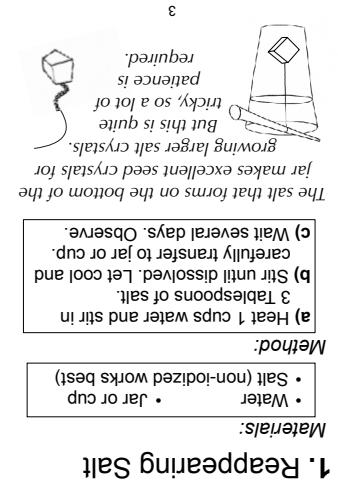
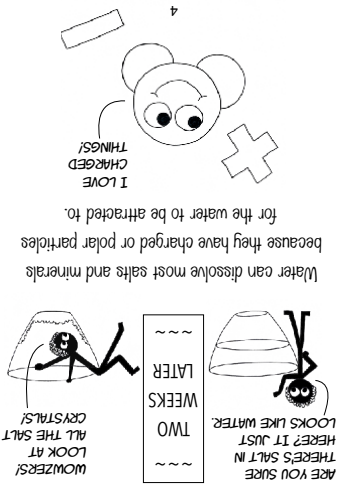
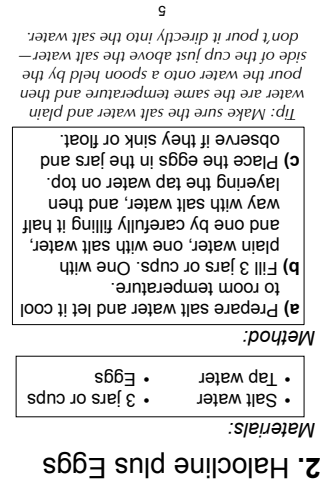


WHAT IS THIS

CRYSTAL MADE OF?



Name	Chemical Formula
Table Salt	Sodium Chloride (NaCl)
Alum	Hydrated potassium aluminum sulfate (KAl(SO ₄)*12H ₂ O)
Borax	Sodium tetraborate (Na ₂ B ₄ O ₇ *10H ₂ O)
Sugar	Sucrose (C ₁₂ H ₂₂ O ₁₁)
Epsom Salt	Magnesium sulfate (MgSO ₄)
Quartz	Silicon dioxide (SiO ₂)
Diamond	Carbon (C)



3. Eggshell Geodes

Materials:

- Water
- Jars or cups
- Alum
- Food coloring
- Eggshell
- White glue

Method:

- Heat 2 2/3 cups of water and add 1/2 tsp food coloring and 1 1/3 cup of alum powder.
- Stir until dissolved, and then carefully transfer the solution to two heat proof jars. *Hotter water makes larger the crystals. Cooler water makes smaller sized crystals.*
- Optional:** Seed the inside of the eggshell with glue and sprinkle alum powder over surface.
- Place eggshell in alum solution and let sit for 12-24 hours.



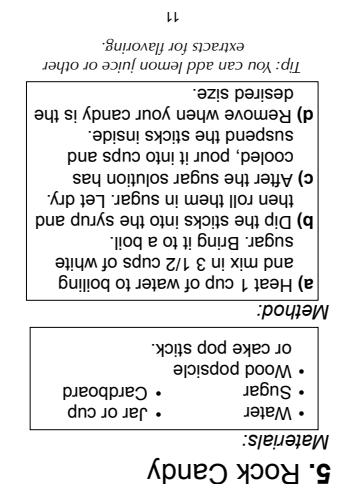
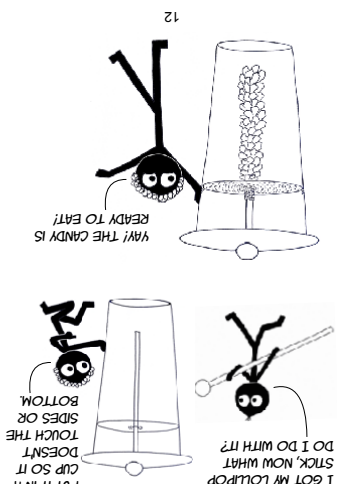
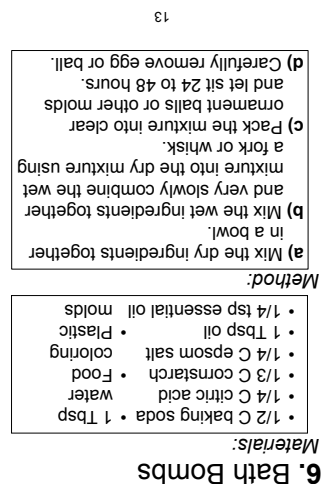
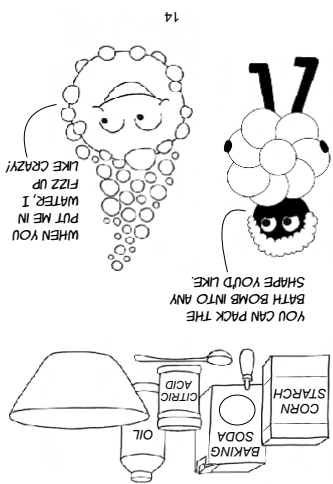
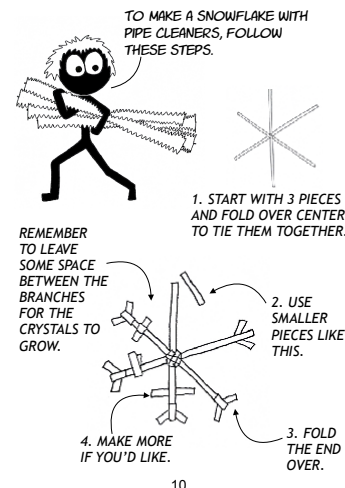
4. Borax Snowflakes

Materials:

- Water
- Pipe cleaner
- String
- Borax powder
- Jars or cups
- Food coloring
- Pencil or piece of cardboard

Method:

- Heat 4 cups of water and add 1 cup Borax. Stir well.
- Take three pipe cleaners and fold into a snowflake shape.
- Suspend the snowflake in the borax solution using the string and cardboard or pencil.
- Wait 12 to 24 hours and then remove from solution. To preserve the crystal, coat it with clear nail polish.



6. Bath Bombs

Materials:

- 1/2 C baking soda
- 1 Tbsp water
- 1/3 C cornstarch
- Food coloring
- 1/4 C epsom salt
- 1 Tbsp oil
- 1/4 tsp essential oil
- Molds

Method:

- Mix the dry ingredients together in a bowl.
- Mix the wet ingredients together and very slowly combine the wet mixture into the dry mixture using a fork or whisk.
- Pack the mixture into clear ornament balls or other molds and let sit 24 to 48 hours.
- Carefully remove egg or ball.

5. Rock Candy

Materials:

- Sugar
- Cardboard
- Jar or cup
- Wood popsicle
- or cake pop stick.

Method:

- Heat 1 cup of water to boiling and mix in 3 1/2 cups of white sugar. Bring it to a boil.
- Dip the sticks into the syrup and then roll them in sugar. Let dry.
- After the sugar solution has cooled, pour it into cups and suspend the sticks inside.
- Remove when your candy is the desired size.

B

A

A

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