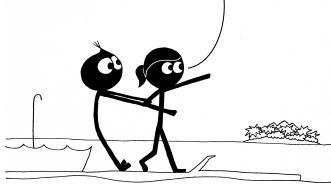


LOOK AN  
ISLAND! LET'S  
GO EXPLORE!**SCIENCE MOM**

www.science.mom

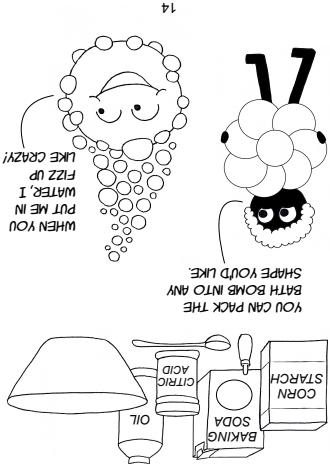
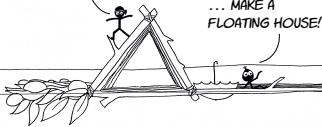
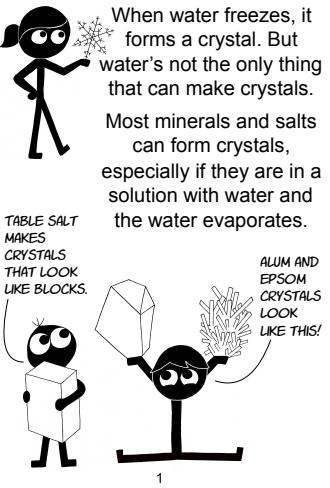
[www.youtube.com/ScienceMom](http://www.youtube.com/ScienceMom)**3. Eggshell Geodes****Materials:**

- Water
- Jars or cups
- Alum
- Eggshell
- Food coloring
- 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.

7

**SCIENCE MOM'S  
Guide to WATER, Part 6**WHEN LIFE GIVES  
YOU DRIFTWOOD...... MAKE A  
FLOATING HOUSE!

1

- HALOCLINE: layers of water having different amounts of salt.
- Method:
- Prepare salt water and plain tap water. One with salt water, and one by carefully filling it half way with water. Weigh each carefully.
  - Fill 3 jars or cups. One with plain water, one with salt water, and one with tap water.
  - Place the eggs in the jars and layering the tap water on top.
  - Pour the water directly into the salt water jar.
  - Make sure the salt water and plain tap water do not mix.
- Materials:
- Tap water
  - Jars or cups
  - Salt water
  - Eggs

**2. Halocline plus Eggs**

8

**4. Borax Snowflakes****Materials:**

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

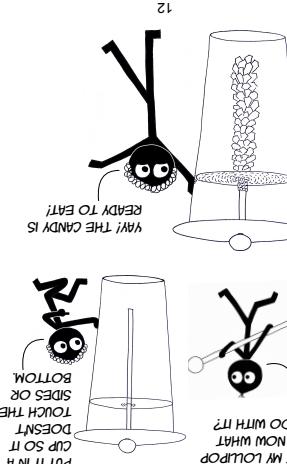
**Method:**

- 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.

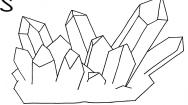
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- Paint the inside with glue...
- SPRINKLE WITH ALUM POWDER.
- ONE DAY LATER...
- IT'S SO BEAUTIFUL!
- Method:
- Mix the dry ingredients together in a bowl.
  - Break the mixture into clear molds and mix the wet ingredients together using a fork or whisk.
  - Peek the mixture into clear molds and slowly combine the wet mixture into the dry mixture using a fork or whisk.
  - Carefully remove egg or ball and let sit 24 to 48 hours.
- Materials:
- 1/4 C baking soda
  - 1 Tbsp cornstarch
  - 1/3 C cornstarch
  - Food coloring
  - 1 Tbsp oil
  - 1/4 tsp essential oil

13

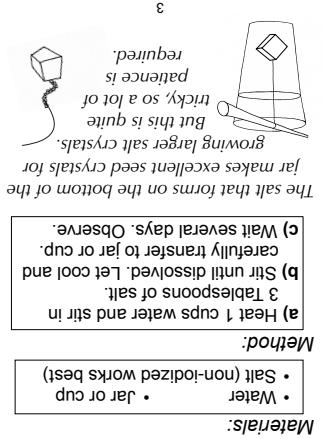


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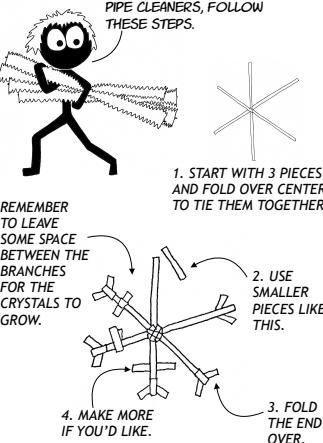
**WHAT IS THIS****CRYSTAL****MADE OF?**

Name	Chemical Formula
Table Salt	Sodium Chloride (NaCl)
Alum	Hydrated potassium aluminum sulfate ( $KAl(SO_4)_2 \cdot 12H_2O$ )
Borax	Sodium tetraborate ( $Na_2B_4O_7 \cdot 10H_2O$ )
Sugar	Sucrose ( $C_{12}H_{22}O_{11}$ )
Epsom Salt	Magnesium sulfate ( $MgSO_4$ )
Quartz	Silicon dioxide ( $SiO_2$ )
Diamond	Carbon (C)

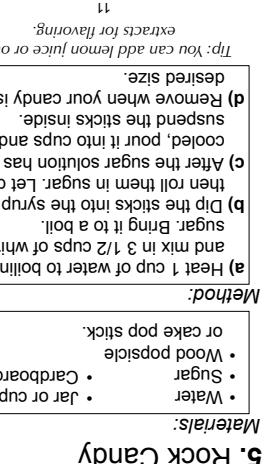
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3

**1. Reapperearing Salt****TO MAKE A SNOWFLAKE WITH PIPE CLEANERS, FOLLOW THESE STEPS.**

10



11

**5. Rock Candy**

B

A

A

X

B

C

C

D

F

E

E

D

E

G

G

X