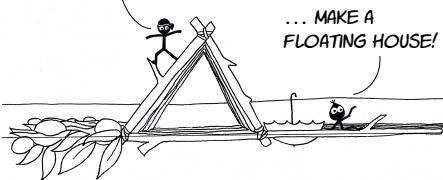
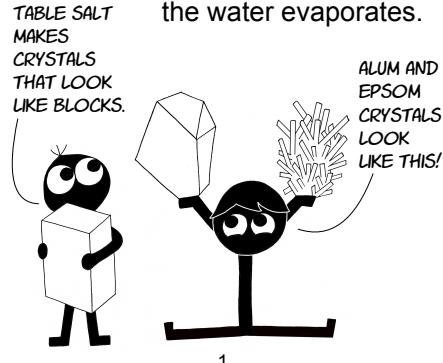


SCIENCE MOM

www.science.mom

www.youtube.com/ScienceMomSCIENCE MOM'S
Guide to WATER, Part 6WHEN LIFE GIVES
YOU DRIFTWOOD...... MAKE A
FLOATING HOUSE!

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.

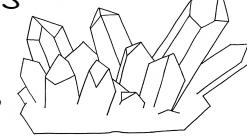


1

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)

2

3. Eggshell Geodes

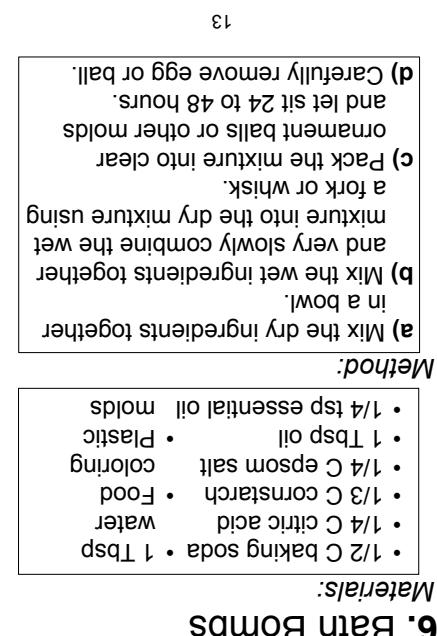
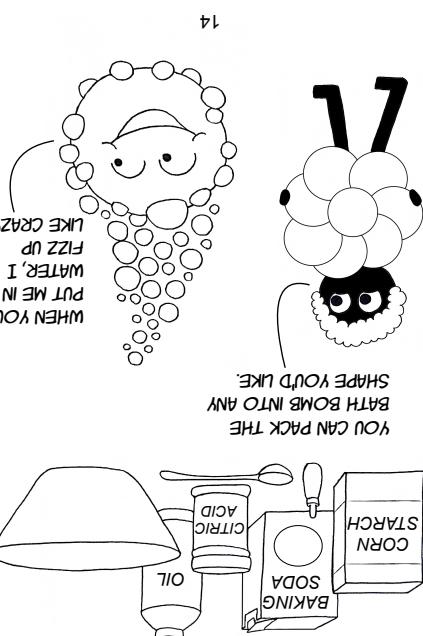
Materials:

- Water
- Alum
- Eggshell
- Jars or cups
- 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



6. Bath Bombs

Materials:

- 1/4 C citric acid
- 1/2 C baking soda
- 1 Tbsp cornstarch
- 1/3 C cornstarch
- Food
- 1/4 Tbsp essential oil
- Plastic
- 1 Tbsp epsom salt
- Colorings
- 1/4 Tbsp oil

4. Borax Snowflakes

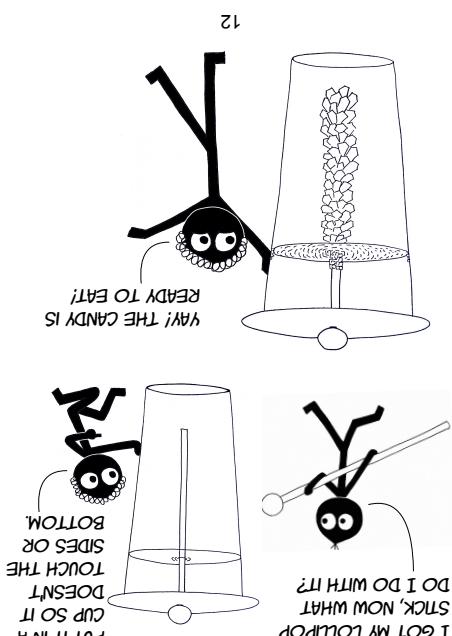
Materials:

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

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.

9



WHAT IS THIS

CRYSTAL

MADE OF?

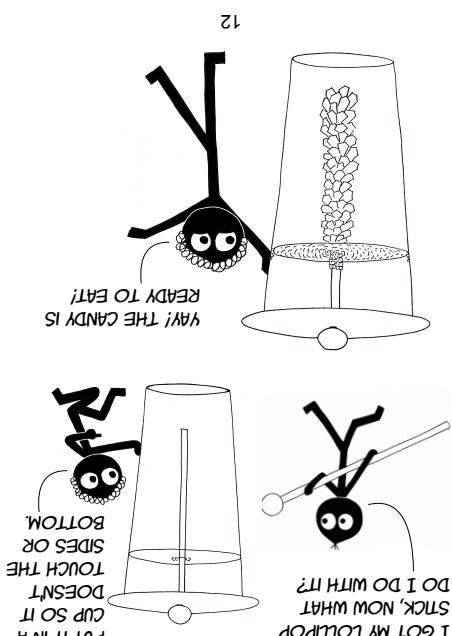
a) Heat 1 cups water and stir in 3 Tablespoons of salt.	Wait several days. Observe.
b) Stir until dissolved. Let cool and carefully transfer to jar or cup.	The salt that forms on the bottom of the jar makes excellent seed crystals for growing larger salt crystals.
c) Wait several days. Observe.	But this is quite thickly, so a lot of patience is required.
d) Stir 1 cups water and stir in 3 Tablespoons of salt.	The jar makes excellent seed crystals for growing larger salt crystals.
e) Heat 1 cups water and stir in 1 cup of salt.	The salt that forms on the bottom of the jar makes excellent seed crystals for growing larger salt crystals.
f) Stir until dissolved. Let cool and carefully transfer to jar or cup.	Water can dissolve most salts and minerals because they have charged or polar particles.
Method:	Water can dissolve most salts and minerals because they have charged or polar particles.
Materials:	Water you stir here? IT JUST LOOKS LIKE WATER.
Method:	ARE YOU SURE THERE'S SALT IN THERE? IT JUST LOOKS LIKE WATER.
Materials:	WEEKS
Method:	TWO
Materials:	WEEKS
Method:	LATER
Materials:	WOWZERS! LOOK AT ALL THE SALT CRYSTALS!
Method:	ARE YOU SURE THERE'S SALT IN THERE? IT JUST LOOKS LIKE WATER.
Materials:	WEEKS
Method:	TO MAKE A SNOWFLAKE WITH PIPE CLEANERS, FOLLOW THESE STEPS.
Materials:	1. START WITH 3 PIECES AND FOLD OVER CENTER TO TIE THEM TOGETHER.
Method:	REMEMBER TO LEAVE SOME SPACE BETWEEN THE BRANCHES FOR THE CRYSTALS TO GROW.
Materials:	2. USE SMALLER PIECES LIKE THIS.
Method:	3. FOLD THE END OVER.
Materials:	4. MAKE MORE IF YOU'D LIKE.
Method:	10

11

a) Heat 1 cup of water to boiling and mix in 3 1/2 cups of white sugar. Bring it to a boil.	Type: You can add lemon juice or other extracts for flavoring.
b) Dip the sticks into the syrup and roll them in sugar. Let dry.	Remove when your candy is the desired size.
c) After roll them in sugar. Let dry. Then roll them in syrup. Let dry.	Suspend the sticks inside.
d) Cool, pour it into cups and then roll them in sugar. Let dry.	After roll them in sugar. Let dry.
e) Remove when your candy is the desired size.	After roll them in sugar. Let dry.

5. Rock Candy

- Water
- Sugar
- Wood popsicle
- Cardboard
- Jar or cup
- Cake pop stick



B

A

A

X

B

C

C

D

F

E

E

D

E

G

G

X