

SCIENCE MMM

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www.youtube.com/ScienceMom

amounts of salt.

water having different

HALOCLINE: layers of

SCIENCE MOM'S Guide to WATER. Part 6



don't pour it directly into the salt water.

mater of the cup just above the salt water—

pour the water onto a spoon held by the

water are the same temperature and then

Tip: Make sure the salt water and plain

observe if they sink or float.

c) Place the eggs in the Jars and

layering the tap water on top.

way with salt water, and then

and one by carefully filling it half

plain water, one with salt water,

a) Prepare salt water and let it cool

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• 3 jars or cups

b) Fill 3 jars or cups. One with

2. Halocline plus Eggs

to room temperature.

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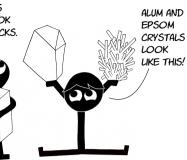
Materials:

Tap water

· Salt water

When water freezes, it forms a crystal. But vater'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 (KAI(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)		

3

Silicon dioxide (SiO₂)

Carbon (C)

required. si əənəiteq

Quartz

Diamond

But this is quite growing larger salt crystals. jar makes excellent seed crystals for

c) Wait several days. Observe. carefully transfer to jar or cup. b) Stir until dissolved. Let cool and 3 Tablespoons of salt.

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Salt (non-iodized works best)

tricky, so a lot of The salt that forms on the bottom of the

s) Heat 1 cups water and stir in

 Jar or cup Water

1. Reappearing Salt

TO MAKE A SNOWFLAKE WITH

PIPE CLEANERS, FOLLOW

THESE STEPS

Materials:

3. Eggshell Geodes

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SOMETHING

Materials:

- Water
- Jars or cups

HOVERING EGG!

TLOATING, AND

AMAZING SINKING,

CHECK OUT THIS

- Alum
- Food coloring
- Eggshell • White glue

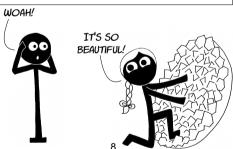
Method:

- a) Heat 2 2/3 cups of water and add 1/2 tsp food coloring and 1 1/3 cup of alum powder.
- b) 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.
- c) Optional: Seed the inside of the eggshell with glue and sprinkle alum powder over surface.
- d) Place eggshell in alum solution and let sit for 12-24 hours.

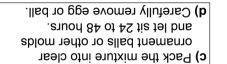
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PAINT THE INSIDE WITH GLUE . . .



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a fork or whisk. mixture into the dry mixture using and very slowly combine the wet

a) Mix the dry ingredients together

- 1/4 tsp essential oil molds
- Plastic
- coloring • 1/3 C cornstarch • Food
- water
- 1/2 C baking soda 1 Tbsp

Materials:

6. Bath Bombs

b) Mix the wet ingredients together in a bowl. :poyjəM lio qedT 1 • • 1/4 C epsom salt • 1/4 C citric acid

4. Borax Snowflakes

Materials:

CRYSTALS!

LOOK AT

MOMSEKS;

TJAS SHT JJA

Water

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I COVE

for the water to be attracted to.

because they have charged or polar particles

Water can dissolve most salts and minerals

MEEK2

OWT

CHARGED

- · Pipe cleaner
- String
- · Borax powder

COOKS LIKE WATER.

HERE? IT JUST

THERE'S SALT IN

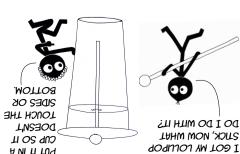
ARE YOU SURE

· Jars or cups · Food coloring · Pencil or piece of cardboard

Method:

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

15 OD READY TO EAT! YAY! THE CANDY IS



ANITITUA

1. START WITH 3 PIECES AND FOLD OVER CENTER TO TIE THEM TOGETHER. REMEMBER TO LEAVE SOME SPACE BETWEEN THE **BRANCHES** 2. USE FOR THE SMALLER CRYSTALS TO PIECES LIKE GROW. 3. FOLD 4. MAKE MORE THE END IF YOU'D LIKE. OVER.

> extracts for flavoring. Tip: You can add lemon juice or other

10

d) Remove when your candy is the suspend the sticks inside. cooled, pour it into cups and

c) After the sugar solution has then roll them in sugar. Let dry.

b) Dip the sticks into the syrup and sugar. Bring it to a boil. and mix in 3 1/2 cups of white a) Heat 1 cup of water to boiling

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or cake pop stick. Wood popsicle

 Sugar · Cardboard

• Jar or cup Water

Materials:

5. Rock Candy



AGOS

BAKING

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B			
F	E	E	b
E	G		