

BANG!

MARVEL INFINITY STONES: Rock Candy Crystals!

WORLDS
UNBound



Post a picture of yourself with your infinity stone crystals on Facebook and tag Worlds UNBound to be entered into a draw for a FREE week of camp. Let us know how your experiment turned out!

Materials:

- 1.5 cups of white sugar
- 1 cup of water
- Small plate
- A spoon
- A glass
- Wax paper
- Saucepan
- Stove
- 6 small & clean jars mason jars
- Popsicle sticks or wooden skewers
- Food coloring pack



This week's theme is all about Superhero STEM! Our final superhero theme revolves around the MARVEL COMICS! The *infinity stones* appear in the Marvel Comics and they are really powerful gems that, when united, can be used to create very important powers. There are six Infinity Stones: The Space Stone (blue), the Reality Stone (red), the Power Stone (purple), the Mind Stone (yellow), the Time Stone (green) and the Soul Stone (orange). Today, we will make rock candy crystals to represent all 6 of the infinity stones!

POW!



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Steps:

1. Fill a glass with water.
2. Pour some sugar on a small plate and lay out a sheet of waxed paper.
3. Dip one end of each popsicle stick into the water and then roll it in the sugar, tapping it gently to remove excess. Set each stick to dry on the waxed paper.
4. Pour the cup of water into the saucepan and add 1/2 cup sugar. Stir it well until no more sugar will dissolve.
5. Add more sugar (1/2 cup at a time) until you can't get any more to dissolve even after stirring for several minutes. You should end up with about 1 1/2 cups sugar dissolved in the saucepan. It's OK if there is some undissolved sugar at the bottom of the pan. You now have a saturated sugar solution!
6. Heat the solution on high until it boils!
7. Turn the heat to medium-low and keep stirring until all the sugar dissolves. Now you have made a supersaturated solution!
8. Keep cooking the liquid and stirring it until it becomes clear, but not for more than 5 minutes, or it will get too hot and turn into hard candy!
9. Turn off the stove as soon as it starts to look clear and let the solution cool.
10. Pour the solution into 6 small mason jars.
11. Add 5-6 drops of food colouring to each jar. Make sure there is 1 yellow, 1 red, 1 blue, 1 green, 1 orange, and 1 purple

To make orange: mix red and yellow!

To make purple: mix blue and red!



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Steps:

12. Once the solution is cool and the sugar-coated sticks are dry, place several sticks into each jar!
13. Carefully move the jars to a place where they won't be disturbed.
14. Check the sticks every other day and gently stir the sticks around in the sugar solution to break up any large crystals forming on the surface.
15. Within a few days, you should start to see crystals growing on the sticks! 15. After about one week, you will probably have a lot of crystals. When your "rock candy" crystals are as big as you want them to be, take them out of the jars and set each color of candy in a clean glass to dry!
16. Have fun and enjoy!

Thank you for participating!
We hope you enjoyed this activity.
Check out another activity on MONDAY!