nat

4. What can you conclude about the formation of salt crystals?

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Materials needed:

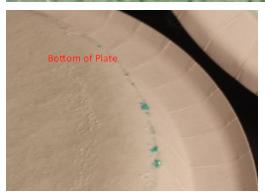
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- Salt, hot plates, stirring rods, plates (preferably paper), water.
- I group the students in groups of 3 to 4 as I am limited to space for the amount of plates.
- This experiment works best if the students really, really, really get the salt dissolved. Sometimes students just
 stir a little and then add more before the first salt has dissolved. They should work very hard at stirring the salt
 so that it dissolves. If they do it right they will get large cubed salt crystals like the ones in the picture below.



- Many students for their observations just write down that the salt is floating around, or that it looks like salt water. Encourage them to really look. After the first day they should see some crystals starting to form.
- One observation they might see if the plates you use have crevices running up the sides, is salt will "precipitate" out of the solution. If the students pick up the plate sometimes they can see that the salt moved out of the solution and to the bottom of the plate.





• I add the food color to simulate chemical impurities that can alter a crystals color during formation.

• I also set up a table in the back of the room to house all the plates. It takes about 5-8 days for all the water to evaporate.

