**HOW TO: MAKE CRYSTALS ON AN EGGSEHELL**

**MATERIALS:**
- One egg
- Alum powder
- Food coloring
- A bowl
- Water
- Glue
- Paintbrush

**STEPS:**

1. Carefully crack an egg lengthwise into two halves and discard the egg. Crystals need something to grow on, so the more of the eggshell you can keep intact, the better.

2. Paint the inside of one of your eggshell halves with glue and cover with Alum powder.

3. Allow your eggshell to completely dry.

4. Microwave 2 cups of water in a microwave safe bowl.

5. Add 40 drops of food coloring and ¾ cup of Alum powder.

6. Mix until the Alum powder is fully suspended in the water. If there are still Alum crystals remaining at the bottom of your bowl, microwave for another 30 seconds to 1 minute and mix again.

7. Allow your crystal solution to cool for 30 mins.

8. Place your eggshell into the solution and leave for at least 12 hours. If you are not satisfied with the resulting crystals, microwave your crystal solution for 2 mins again, allow it to cool for 30 mins, and place your eggshell back into the solution. Leave for another 6–12 hours.

9. Carefully remove your eggshell from the solution as wet crystals are delicate. Allow to dry.

The crystal solution you create is saturated with Alum. As the solution cools and Alum particles settle to the bottom of your bowl, they will attach themselves to your eggshell and form crystals. You will notice crystallization in the bowl as well. The longer you allow your eggshell to sit in the crystal solution, the bigger your crystals will grow. You can repeat the process several times until you are satisfied with the result.