

Amazing Crystal Growing KIT

FREE INSTRUCTIONAL VIDEO, CRYSTAL SCIENCE EBOOK, AND VIP LIST

Why read a manual when you can watch a short and easy-to-follow video showing you how to use your Amazing Crystal Growing Kit. Simply visit www.evvivasciences.com/crystalvideo for this free instructional video. Also, as a sign of our gratitude, we are pleased to offer you our Free Crystal eBook, with amazing information about the science of crystal formation and exciting additional experiments you can do on your own at home! To redeem this item, please visit www.evvivasciences.com/crystalebook. Lastly, please join our VIP list for exclusive access to promotions and other deals. Simply visit www.evvivasciences.com/vip and you are in!

SAFETY INFORMATION:

Keep all chemicals locked up and out of reach of children. This kit is designed for children 10 years and older and requires adult supervision. Wash hands and equipment after use. Take care when handling hot water and hot solutions. Please note the following hazard and precautionary statements for all chemicals contained in this kit:

- Crystal Flower Bags #1-3: LQ or Ammonium Dihydrogen Phosphate (H_6NO_4P)
- Dolphin and Star Bag #1 and #3: AL or Alum or Aluminum Potassium Sulfate Dodecahydrate ($AlH_{24}KO_{20}S_2$)
- Dolphin and Star Bag #2: GY or Gypsum or Calcium Sulfate-2-Hydrate (CaH_4O_6S)






Avoid breathing all chemical powders and avoid contact with skin, eyes, and mouth. Rinse immediately with water if there is contact with eyes or skin. IF CHEMICALS ARE SWALLOWED, get immediate medical advice/attention and have this instruction manual and the product label of the chemical substance at hand.

KIT CONTENTS





Crystal Flower Materials

-  1. Crystal Flower Bags #1-3* (95g Crystal Powder LQ).
-  2. Three Crystal Flower Seeds.





Other Supplies

-  1. 5-in-1 Plastic Container For Growing Crystals.
-  2. Three 5 ml bottles of Colored Dyes (Red/Pink, Blue, Yellow).
-  3. 50ml Measuring cup.
-  4. Stirring Spoon.
-  5. Small Tweezers

Star Shape Materials

-  1. Star bag #1 (10g AL).
-  2. Star bag #2 (10g GY).
-  3. Star bag #3 (50g AL).
-  4. Star Shape Mold.

Dolphin Shape Materials

-  1. Dolphin bag #1 (15g AL).
-  2. Dolphin bag #2 (15g GY).
-  3. Dolphin bag #3 (50g AL).
-  4. Rubber Dolphin Shape Mold.

HOW DOES CRYSTAL FORMATION WORK?

(Please check out our eBook more information!) The Amazing Crystal Growing Kit works by letting beautiful crystals precipitate out of a supersaturated solution. What does this mean exactly? Well, here is an example. If you dissolve sugar in water at room temperature, you will only be able to dissolve a certain amount (about 210 grams in 100ml). But if you boil the water, you can dissolve even more sugar (over 420 grams in 100ml). Once you have dissolved this amount, the solution is called "saturated" because it is holding the maximum amount of sugar. But if you cool down the sugar water, it will become "supersaturated" because it now has more dissolved sugar than it should at that temperature. And when this happens, the sugar will precipitate out forming crystals. In fact, this is how rock candy is made (see our Crystal eBook for a recipe!). Using a seed crystal helps to bring the crystals out of solution and helps the crystals to form amazing shapes. The Amazing Crystal Growing Kit works in the same way, but instead of sugar it uses other chemical powders that we have found form much prettier crystals!

Amazing Crystal Growing KIT

INSTRUCTIONS:



CREATE 3 CRYSTAL FLOWERS

TIP: Only make one crystal at a time!

1. Boil water over a stove.
2. Add boiling water to the water fill line (200 ml) of a Crystal Flower Slot in the 5-in-1 plastic container.

TIP: Add water as close to the line as possible to get beautiful crystals!

3. Add ONE "Crystal Flower Bag" (#1, #2, or #3).
4. Stir for EXACTLY 10 minutes!
5. Add the color dye (see Table 1) to adjust the crystal's color and briefly stir.
6. Let the mixture sit for EXACTLY 15 minutes!
7. Use tweezers to add a crystal flower seed. Make sure it is in the center of the crystal flower slot and the curved side faces up.
8. Leave undisturbed for 5-7 days to get BEAUTIFUL crystals. Remove with tweezers and dry on a newspaper/napkin.
9. Please email us pictures and we will add them to our website!



TABLE 1	
CRYSTAL COLORS	
BLUE:	10 DROPS BLUE
YELLOW:	15 DROPS YELLOW
RED/PINK:	15 DROPS RED
GREEN:	5 DROPS BLUE 5 DROPS YELLOW
PURPLE:	4 DROPS RED 3 DROPS BLUE
ORANGE:	5 DROPS RED 4 DROPS YELLOW

TABLE 2	
DOLPHIN/STAR MOLD COLORS	
BLUE:	4 DROPS BLUE
YELLOW:	4 DROPS YELLOW
RED/PINK:	6 DROPS RED
GREEN:	2 DROPS BLUE 2 DROPS YELLOW
PURPLE:	3 DROPS RED 2 DROPS BLUE
ORANGE:	2 DROPS RED 2 DROPS YELLOW

TIP: Use your imagination and creativity to make your own colorful combinations!!!



CREATE A DOLPHIN AND STAR CRYSTAL



TIP: Only make one crystal at a time!

STEP 1: Create the Dolphin and Star Crystal Seeds

1. Add 20 ml cold water for the dolphin OR about 15 ml cold water for the star to the 50 ml measuring cup.
2. Add the color dye using Table 2.

KEY STEPS

3. • Add Dolphin Bag #1 THEN Dolphin Bag #2 (OR Star Bag #1 THEN Star Bag #2) to the measuring cup.
4. • Stir FAST for ~10 seconds.
5. • IMMEDIATELY pour mixture into the rubber dolphin or star mold. Use stirring spoon handle to smooth out the surface.

TIP: Pour mixture quickly because it will solidify fast

6. Wait 24 hours before removing the star or dolphin seed

STEP 2: Create the Dolphin and Star Crystal (24 hrs later)

1. Boil water over a stove.
2. Add boiling water to a Star/Dolphin Slot in the 5-in-1 plastic container to the water fill line (200 ml).
3. Add Star Bag #3 (for the star shape) OR Dolphin Bag #3 (for the dolphin shape).
4. Stir for EXACTLY 10 minutes.
5. Add color dye according to Table 1 and stir. Use the SAME color you chose for the dolphin/crystal seed.
6. Let the mixture sit for exactly 15 minutes!
7. Add the crystal star or crystal dolphin seed created in Step 1.
8. Leave undisturbed for 2-3 days to get a beautiful dolphin or star crystal shape!
9. Remove shape with tweezers and let it dry on a newspaper or paper towel. Email us pictures and we will add to our website.

