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> NATIONAL GEOGRAPHIC Mega Crystal Growing Kit - Instruction Manual for Model NGMEGACRYSTAL

## Blue Marble NGMEGACRYSTAL

# NATIONAL GEOGRAPHIC Mega Crystal Growing Kit

## INSTRUCTION MANUAL - MODEL NGMEGACRYSTAL

Brand: Blue Marble

### 1. Introduction

Welcome to the exciting world of crystal growing with your NATIONAL GEOGRAPHIC Mega Crystal Growing Kit. This kit provides an engaging STEM experience, allowing you to grow vibrant crystals and display them on a unique light-up stand. Follow these instructions carefully to ensure a successful and enjoyable experiment.

### 2. Safety Information

**WARNING: CHOKING HAZARD - Small parts. Not suitable for children under 3 years.**

Adult supervision is required for this experiment. Always read and follow all instructions before beginning. Do not eat any components of this kit. In case of eye contact with crystal growing powder or solution, rinse immediately with plenty of cold water. If irritation persists, seek medical attention. Keep all components away from pets and small children. Dispose of waste materials responsibly according to local regulations.

### 3. What's Included

Your Mega Crystal Growing Kit includes the following components:

- Light-up display stand with USB cable
- Crystal growing powder (8 packets for 8 colors)

- Real crystal specimens (5 pieces)
- Silicone growing chambers (2 pieces)
- Wooden stirring stick
- Magnifying glass
- National Geographic Learning Guide

## GROW 8 COLORFUL CRYSTALS & MAKE THEM GLOW WITH LIGHT-UP DISPLAY BASE!



*Image: All components of the NATIONAL GEOGRAPHIC Mega Crystal Growing Kit, including powder packets, seed rocks, growing chambers, light-up display, and learning guide.*

### 4. Setup and Crystal Growing Instructions

Follow these steps to grow your amazing crystals:

1. **Prepare Your Workspace:** Choose a stable, flat surface away from vibrations and direct sunlight. Gather all kit components and ensure you have access to boiling water.
2. **Heat Water:** Carefully heat 1 cup (240ml) of water to boiling. Adult assistance is required.
3. **Prepare Growing Chamber:** Pour the hot water into one of the silicone growing chambers.
4. **Add Crystal Growing Powder:** Carefully open one packet of crystal growing powder (choose your desired color) and pour its entire contents into the hot water in the growing chamber.

5. **Stir the Solution:** Use the provided wooden stirring stick to stir the mixture until the powder is mostly dissolved. Stir gently, alternating directions, for approximately 2-3 minutes.
6. **Add Seed Rock:** Once the powder is mostly dissolved, carefully place one crystal seed rock (flat side down) into the center of the solution in the growing chamber.
7. **Allow to Grow:** Place the growing chamber in a dark, undisturbed space (e.g., a cupboard or closet) for 7-10 days. For larger, more developed crystals, you may extend the growing period.
8. **Repeat for More Crystals:** You can repeat steps 2-7 for additional crystals using the remaining powder packets and the second silicone growing chamber.

## EASY TO GROW!



Image: Visual instructions showing the process of mixing crystal powder with hot water, adding a seed rock to the silicone growing chamber, and the resulting grown crystal.

### Video Guide: Crystal Growing Process

Your browser does not support the video tag.

Video: An official instructional video demonstrating the step-by-step process of growing crystals using the NATIONAL GEOGRAPHIC Mega Crystal Growing Kit.

## 5. Harvesting and Displaying Your Crystals

1. **Remove Liquid:** After the growing period, carefully pour the remaining liquid out of the silicone chamber.
2. **Extract Crystal:** Gently squeeze the bottom of the silicone chamber until the crystal is loose enough to remove. Be careful as crystals can be delicate.
3. **Remove Seed Rock:** Using a safe tool (like a dull knife or the wooden stick), gently scrape away the bottom layer of the crystal to expose and remove the seed rock. This allows the light to shine through more effectively.
4. **Place on Display Stand:** Position your finished crystals onto the light-up display stand. The stand has five designated spots for your crystals.
5. **Activate Light-Up Stand:** Connect the USB cable from the display stand to a USB power source (e.g., a computer, wall adapter, or power bank). Flip the switch on the back of the stand to illuminate your crystals.

## 5 AMAZING CRYSTAL SPECIMENS FROM AROUND THE WORLD!



*Image: A collection of five vibrant, home-grown crystals, including blue, pink, yellow, green, and orange, beautifully illuminated on the included light-up display stand.*



Image: A young child uses a magnifying glass to closely inspect the intricate formations of a newly grown blue crystal, showcasing the detailed results of the experiment.

## 6. Care and Maintenance

- Keep grown crystals in a dry environment to prevent degradation.
- Handle crystals gently as they can be fragile.
- Clean the light-up display stand with a soft, dry cloth. Do not use abrasive cleaners.

## 7. Troubleshooting

- **Crystals not growing:** Ensure water was hot enough and powder was mostly dissolved. Verify the growing chamber was placed in an undisturbed, dark location. Allow sufficient time (7-10 days or longer).
- **Crystals are small or misshapen:** Environmental factors like temperature fluctuations or vibrations can affect crystal growth. Ensure the seed rock was placed flat side down.

- **Light-up stand not working:** Check the USB cable connection and ensure the power source is active. Verify the switch on the stand is in the 'ON' position.

## 8. Specifications

<b>Model Number</b>	NGMEGACRYSTAL
<b>Brand Name</b>	Blue Marble (National Geographic)
<b>Manufacturer</b>	Discover with Dr. Cool
<b>Age Range Description</b>	8 years and up
<b>Educational Objective</b>	STEM
<b>Material Type</b>	Crystal Growing Powder
<b>Item Dimensions</b>	7.99 x 4.92 x 10.24 inches
<b>Item Weight</b>	3 Pounds
<b>Included Components</b>	Light-up display stand with USB cable, Crystal growing powder (8), Real crystal specimens (5), Growing chamber, National Geographic Learning Guide

## 9. Warranty and Support

This product comes with no manufacturer warranty. For any questions or support regarding your NATIONAL GEOGRAPHIC Mega Crystal Growing Kit, please refer to the contact information provided on the product packaging or visit the Blue Marble website.