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> National Geographic Kids Junior Chemistry Lab Kit (Model NGJRCHEMT) - Instruction Manual

Blue Marble NGJRCHEMT

National Geographic Kids Junior Chemistry Lab Kit (Model NGJRCHEMT)

Instruction Manual

1. INTRODUCTION

Welcome to the exciting world of science with your National Geographic Kids Junior Chemistry Lab Kit! This kit is designed to introduce young scientists, aged 4 and up, to fundamental chemistry concepts through engaging, hands-on experiments. It includes over 20 kid-friendly lab tools and instructions for 50 unique experiments, primarily utilizing common household items.

This manual provides essential information for setting up, operating, and maintaining your chemistry lab kit, along with safety guidelines and troubleshooting tips. Please read all instructions carefully before beginning any experiment.

2. SAFETY INFORMATION

WARNING: CHOKING HAZARD - Small Parts. Not for children under 3 years.

This kit contains tools for experiments. All experiments should be conducted under strict adult supervision. Always wear the provided safety goggles to protect eyes from splashes or spills. Do not ingest any materials used in experiments. Wash hands thoroughly before and after each experiment.

Ensure a clean, well-ventilated workspace. Keep all materials away from food and drink. In case of accidental contact with eyes or skin, rinse immediately with plenty of water and seek medical attention if irritation persists.



Image: A child wearing safety goggles, demonstrating the importance of eye protection during experiments. The kit includes durable, child-safe lab tools.

3. KIT CONTENTS

Your National Geographic Kids Junior Chemistry Lab Kit includes over 20 pieces of specially designed lab tools. Please verify that all components listed below are present in your kit.

- 1 x 50 mL Beaker
- 1 x 100 mL Beaker
- 1 x Conical Flask
- 1 x Round Flask
- 3 x Test Tubes with caps
- 1 x Test Tube Rack
- 1 x Test Tube Cleaning Brush
- 1 x Funnel
- 1 x Magnifying Glass
- 1 x Safety Goggles
- 3 x Droppers
- 5 x Measuring Spoons (various sizes)
- Food Coloring (various colors)
- Instruction Manual with 50 Experiments



Image: An overview of the kit's contents, including beakers, test tubes, droppers, measuring spoons, and safety goggles, all designed for young scientists.

4. SETUP

1. **Unpack:** Carefully remove all components from the packaging.
2. **Inspect:** Check all lab tools for any damage or missing pieces. Contact customer support if any items are damaged or missing.
3. **Clean:** Before first use, wash all plastic lab tools (beakers, flasks, test tubes, droppers, measuring spoons, funnel) with warm, soapy water. Use the provided test tube cleaning brush for thorough cleaning. Rinse thoroughly and allow to air dry.
4. **Organize:** Place the test tubes in the test tube rack. Keep all tools organized in a designated area to prevent loss and ensure easy access during experiments.
5. **Prepare Workspace:** Choose a flat, stable surface for conducting experiments. Cover the surface with newspaper or a plastic sheet to protect it from spills. Ensure adequate lighting and ventilation.
6. **Gather Additional Materials:** Many experiments require common household items (e.g., baking soda, vinegar, salt, water). Refer to the specific experiment instructions to identify and gather all necessary additional materials before starting.

5. OPERATING EXPERIMENTS

The instruction manual included with your kit contains 50 unique experiments. Each experiment is clearly illustrated with step-by-step instructions. Follow these general guidelines for successful and safe experimentation:

1. **Read Instructions:** Before starting any experiment, read all instructions thoroughly, including the "What to Get" list for additional household items.
2. **Adult Supervision:** All experiments require adult supervision. An adult should be present to guide the child, ensure safety, and assist with any complex steps.
3. **Wear Safety Goggles:** Always wear the provided safety goggles to protect your eyes during experiments.
4. **Measure Accurately:** Use the provided measuring spoons and marked beakers/flasks for accurate measurements as specified in the instructions.

- Observe and Record:** Encourage observation and discussion of the results. The manual often includes "Did You Know?" sections to explain the science behind the experiments.
- Clean Up:** After each experiment, clean all lab tools as described in the Maintenance section. Dispose of any waste materials according to local guidelines.



Image: A page from the instruction manual, detailing an experiment with clear, illustrated steps and scientific explanations.

Your browser does not support the video tag.

Video: An official product video demonstrating various experiments from the National Geographic Kids Junior Chemistry Lab Kit, highlighting the ease of use and engaging nature of the activities. This video is provided by JMW SALES INC., the manufacturer.

6. MAINTENANCE

Proper care and maintenance will ensure the longevity of your National Geographic Kids Junior Chemistry Lab Kit.

- Cleaning Tools:** After each use, wash all plastic lab tools with warm, soapy water. Use the test tube cleaning brush for narrow containers. Rinse thoroughly and allow to air dry completely before storing.
- Storage:** Store all components in their original box or a designated container in a cool, dry place, away from direct sunlight and extreme temperatures.
- Inspection:** Periodically inspect all tools for wear and tear. Replace any damaged items to ensure safety and proper function.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Experiment not working as expected.	Incorrect measurements, missing ingredients, or improper steps.	Review the experiment instructions carefully. Ensure all measurements are accurate and steps are followed precisely. Verify all necessary household ingredients are present and fresh.
Difficulty cleaning test tubes.	Residue stuck inside narrow openings.	Use the provided test tube cleaning brush with warm, soapy water. For stubborn residue, soak the tools before scrubbing.

Problem	Possible Cause	Solution
Safety goggles fogging up.	Temperature difference or lack of ventilation.	Ensure goggles are properly fitted. If fogging persists, briefly remove them to clear, or apply a small amount of anti-fog solution (if available and safe for plastic).

8. SPECIFICATIONS

- **Model Number:** NGJRCHEMT
- **Product Dimensions:** 11 x 4.22 x 9.64 inches
- **Item Weight:** 1.58 pounds
- **Manufacturer Recommended Age:** 4 years and up
- **Number of Experiments:** 50
- **Number of Lab Tools:** 20+ pieces
- **Manufacturer:** JMW Sales, Inc. (Brand: Blue Marble)
- **Release Date:** July 31, 2024

9. WARRANTY AND SUPPORT

For any questions, concerns, or assistance with your National Geographic Kids Junior Chemistry Lab Kit, please contact the manufacturer's support team. Blue Marble, the brand behind this product, is committed to ensuring a stellar experience.

Contact Information:

Website: www.thinkbluemarble.com

Email: help@thinkbluemarble.com

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