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› Discovery Kids Galactic Space Science Kit (Model 1019073) Instruction Manual

Discovery Kids 1019073

Discovery Kids Galactic Space Science Kit (Model 1019073) Instruction Manual

Brand: Discovery Kids | **Model:** 1019073

INTRODUCTION

Welcome to the Discovery Kids Galactic Space Science Kit! This kit is designed to take young explorers on an exciting journey through the wonders of the universe, combining hands-on experiments with real scientific concepts. With 61 activities, you will explore astronomy, chemistry, and archeology in a fun and engaging way. This manual provides essential information for setup, operation, and maintenance to ensure a safe and educational experience.



Image: Front view of the Discovery Kids Galactic Space Science Kit packaging, highlighting key activities and components.

Discovery Brand Overview

Your browser does not support the video tag.

Video: An overview of the Discovery brand's educational philosophy and product range, showcasing various science and learning kits.

Safety Information

WARNING: This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

- Always perform experiments under direct adult supervision.
- Read all instructions and safety warnings before beginning any experiment.
- Do not ingest any materials from the kit.
- Wash hands thoroughly before and after handling materials.
- Keep all chemicals and components away from eyes and mouth.
- Dispose of waste materials according to local regulations.
- Not suitable for children under 3 years due to small parts (choking hazard).

What's in the Box

Your Discovery Kids Galactic Space Science Kit includes the following components:

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- A collection of various science and craft materials including containers of Slime Powder, Citric Acid, Decorative Sand, Glow Powder, Cornstarch, Crystal Seed Rock, Crystal Growing Powder, Bouncy Ball Powder, Glitter, Gel Powder, Pop Crystal, Baking Soda, and various tools like a hammer, tongs, and a rocket model.

61 SCIENCE EXPERIMENTS



1 KIT

Kit contains moon phase dial, molds, slime mixtures and more!

Image: A visual representation of all the materials and tools included in the kit, neatly arranged.



Image: The back of the product box, detailing the kit contents and additional information.

SETUP

Before starting any experiment, ensure you have a clean, flat workspace. Gather all necessary kit components and any additional household items required for specific experiments (e.g., water, vinegar, cooking oil). Always wear appropriate safety gear, such as safety goggles, if recommended for an experiment.

1. Read the entire instruction guide for the chosen experiment before beginning.
2. Lay out all required materials and tools.
3. Prepare your workspace by covering it with newspaper or a protective mat if necessary.
4. Ensure adequate ventilation, especially when working with chemicals.

OPERATING INSTRUCTIONS: EXPERIMENTS

The kit includes 61 experiments covering various scientific principles. Refer to the included instruction guide for detailed, step-by-step instructions for each activity. Below are examples of the types of experiments you can perform:

DIY Bouncy Ball

Create your own bouncy balls using the provided materials. This experiment demonstrates polymer science and material properties.

Your browser does not support the video tag.

Video: A demonstration of how to create a DIY bouncy ball using the science kit components, showing the mixing and molding process.

Grow Moon Rocks

Discover the process of crystal formation by growing your own "moon rocks." This activity explores geology and chemistry.

Galaxy Slime

Mix and create shimmering galaxy slime, learning about non-Newtonian fluids and chemical reactions.

DIY Telescope

Assemble a working paper telescope to observe distant objects, introducing basic optics and astronomy.

Fizzy Sun Reactor

Observe a chemical reaction that simulates a "fizzy sun reactor," demonstrating acid-base reactions and gas production.



LEARN ABOUT ASTRONOMY, CHEMISTRY & ARCHEOLOGY

**Science Kit Experiment 4 - Fizzy Sun Reactor/
Expérience scientifique 4 - Soleil pétillant**

From Kit Dans la trousse

- Baking Soda Bicarbonate de soude
- Measuring Cup Tasse à mesurer
- Mixing Bowl Bol à mélanger
- Mixing Stick Bâtonnet à mélanger
- Yellow Coloring Colorant jaune

From Home De la maison

- Water Eau
- Vinegar Vinaigre
- Dish Soap Savon à vaisselle
- Beaker Bêcher

Instructions

1. Use your measuring cup to measure 30 g of baking soda. Add baking soda into your mixing bowl. Then, add 2 large scoops of dish soap. Mix. / Utiliser la tasse à mesurer pour mesurer 30 g de bicarbonate de soude et le verser dans le bol à mélanger. Ajouter ensuite 2 grosses doses de liquide à vaisselle. Mélanger.
2. Put 3 drops of yellow coloring into your water. Mix well. / Ajouter 3 gouttes de colorant jaune dans l'eau.
3. Slowly start adding 5 mL of water until you have made a thick moldable paste. / Ajouter lentement 5 ml d'eau jusqu'à l'obtention d'une pâte épaisse et modelable.
4. Mold the baking soda mixture into a ball and set aside. Grab some vinegar and pour onto your sun. So fizzy! / Former une boule avec le mélange de bicarbonate de soude et réserver. Prendre un peu de vinaigre et le verser sur le soleil. Tellement pétillant!

Recreate At Home Recréer à la maison

You can repeat this experiment easily with these pantry staples! Add whatever fun crafty items you want to the fizzy sun to add a unique twist! / Vous pouvez facilement reproduire cette expérience avec ces incontournables du garde-manger! Ajoutez les objets créatifs et amusants de votre choix à cet soleil pétillant.

The Science Behind This

Mixing baking soda and citric acid with water triggers an acid-base reaction, releasing gas and causing bubbling. Citric acid acts as the acid, while baking soda is the base. Le mélange de bicarbonate de soude et d'acide citrique avec de l'eau déclenche une réaction acide-base. Libérant du gaz et provoquant des bulles. L'acide citrique agit comme acide, tandis que le bicarbonate de soude est la base.

Did You Notice? Avez-vous remarqué?

Your sun fizzes like a solar flare! Solar flares release built-up magnetic energy, just as gases escape in this fizzy reaction! / Votre soleil pétille comme une éruption solaire! Les éruptions solaires libèrent de l'énergie magnétique accumulée, tout comme les gaz s'échappent lors de cette réaction pétillante.

15 minutes

**Science Kit Experiment 5 - Moon Sand/
Expérience scientifique 5 - Sable lunaire**

From Kit Dans la trousse

- Gray Moldable Sand Sable gris modelable
- Cornstarch Féculé de maïs
- Measuring Cup Tasse à mesurer

From Home De la maison

- Vegetable Oil Huile végétale
- Bowl Bol

Instructions

1. Combine 30 g of gray moldable sand and 10g of cornstarch in a bowl until mixed completely. Make sure there are not any lumps in the mixture. / Mélanger 30 g de sable gris modelable et 10 g de féculé de maïs dans un bol jusqu'à l'obtention d'un mélange homogène. S'assurer qu'il n'y ait pas de grumeaux.
2. Add 10 mL of oil and mix until all the powder is coated. Enjoy your moon sand! / Ajouter 10 ml d'huile et mélanger jusqu'à ce que toute la poudre soit enrobée. Amusez-vous bien avec votre sable lunaire!

Fun Fact Fait amusant

Moon sand feels soft but sticks to your skin and even things it touches. Astronauts return from the moon with gray suits, as the fine powder can be toxic if inhaled, advanced. / Le sable lunaire est doux au toucher, mais colle à la peau et à tout ce qu'il touche. Les astronautes reviennent de la Lune vêtus de combinaisons grises, car cette fine poudre peut être toxique en cas d'inhalation. C'est pourquoi leurs combinaisons sont technologiquement avancées.

Recreate At Home Recréer à la maison

You can find most of these ingredients grocery store. Decorative sand is found do not have dry. / Vous trouverez la plupart de vos ingrédients dans votre magasin d'alimentation. Le sable décoratif est trouvé dans les magasins d'artisanat.

**Science Kit Experiment 6 - Moon Phases/
Expériences scientifiques 6 - Phases lunaires**

From Kit Dans la trousse

- Moon Phase Dial Cadran des phases lunaires

Instructions

1. Explore the moon phases with this dial! Spin the bottom piece to reveal different moon phases. / Explorez les phases de la Lune avec ce cadran! Tournez la partie inférieure pour révéler les différentes phases de la Lune.

The Science Behind This

The moon's apparent changes due to its orbit around Earth, which orbits the Sun. As the sun's light reflects differently, we see moon phases. A full moon happens when it's fully lit, crescent when partially blocked. L'apparence de la lune change en fonction de son orbite autour de la Terre, qui tourne autour du Soleil. Comme la lumière du Soleil se réfléchit différemment, nous observons ses phases. Une pleine lune se produit lorsqu'elle est complètement éclairée, en croissant lorsqu'elle est partiellement éclairée, et en nouvelle lune lorsqu'elle n'est pas éclairée du tout.

New Moon Nouvelle Lune	Waxing Crescent Croissant de lune	First Quarter Premier quart	Waning Gibbous Gibbeuse croissante	Full Moon
The Moon is between Earth and the Sun, making it invisible. / La Lune est entre la Terre et le Soleil, ce qui la rend invisible.	A small sliver of the Moon starts to appear. / Un petit fragment de lune commence à apparaître.	Half of the Moon is visible. / La moitié de la Lune est visible.	More than half of the Moon is lit up. / Plus de la moitié de la Lune est illuminée.	The Moon is fully lit up. / La Lune est complètement éclairée.

Image: Example pages from the instruction manual, showing step-by-step guides for the Fizzy Sun Reactor and Moon Sand/Moon Phases experiments.



**DIY
TELESCOPE**



**PLANET
DISCOVERY**



**MOON
ROCK DIG**



**GALAXY
SLIME**

61
SCIENCE
EXPERIMENTS

Image: A collage showcasing four key activities: building a DIY telescope, planet discovery, excavating moon rocks, and making galaxy slime.



Image: A collage featuring various experiments including deep space slime, a fizzy sun reactor, moon phases observation, and other engaging activities.

MAINTENANCE

Proper care and storage of your science kit components will ensure their longevity and readiness for future experiments.

- **Cleaning:** After each experiment, clean all reusable tools and containers with warm, soapy water. Rinse thoroughly and allow to air dry completely before storing.
- **Storage:** Store all components in their original packaging or in airtight containers to prevent contamination or degradation. Keep the kit in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Disposal:** Dispose of used chemicals and waste materials responsibly, following the guidelines in the instruction manual and local environmental regulations.

TROUBLESHOOTING

If you encounter issues during an experiment, consider the following common troubleshooting tips:

- **Experiment Not Working:**
 - Double-check the instructions to ensure all steps were followed precisely.
 - Verify that the correct measurements of ingredients were used.
 - Ensure all components are fresh and not expired (if applicable).
 - Check for environmental factors like temperature or humidity that might affect the reaction.
- **Missing Components:** Refer to the "What's in the Box" section and the kit's packaging to confirm all items were received. Contact customer support if any essential components are missing.
- **Safety Concerns:** If any safety concerns arise, immediately stop the experiment and consult the safety information section or seek adult assistance.

SPECIFICATIONS

Product Name	Discovery Kids Galactic Space Science Kit
Model Number	1019073
Brand	Discovery Kids
Product Dimensions	12.5 x 3 x 9 inches
Item Weight	2 pounds
Recommended Age	8 years and up
Number of Experiments	61 (including 40 at-home activities)
ASIN	B0FCN2ZLFM

WARRANTY AND SUPPORT

For warranty information, product support, or to inquire about replacement parts, please refer to the contact information provided on the product packaging or visit the official Discovery Kids website. Keep your purchase receipt as proof of purchase.