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› Discovery Kids #MINDBLOWN 48-Piece Microscope Set Instruction Manual

## Discovery Kids 48-Piece Microscope Set

# Discovery Kids #MINDBLOWN 48-Piece Microscope Set Instruction Manual

Model: 48-Piece Microscope Set

## INTRODUCTION

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Welcome to the world of microscopic exploration with your new Discovery Kids #MINDBLOWN 48-Piece Microscope Set. This set is designed to provide an engaging and educational experience, allowing users to observe specimens at magnifications ranging from 100X to 1200X. Featuring a durable metal framework and a comprehensive accessory kit, this microscope is an excellent tool for scientific discovery.



Image: The Discovery Kids #MINDBLOWN 48-Piece Microscope Set, showcasing the microscope and its accessories in a scientific setting.

Before beginning your observations, please read this manual thoroughly to understand the proper setup, operation, and care of your microscope.

## PRODUCT CONTENTS

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Your Discovery Kids #MINDBLOWN Microscope Set includes the following items:

- 1 x Microscope
- 12 x Slides (5 Prepared, 7 Blank)
- 7 x Glass Covers
- 7 x Slide Labels
- 7 x Slide Covers
- 4 x Samples (Brine Shrimp Eggs, Gum Media, Eosin Dye, Sea Salt)
- 1 x Shrimp Hatchery
- 1 x Specimen Slicer
- 1 x Petri Dish
- 2 x Collecting Vials
- 1 x Graduated Cylinder

- 1 x Needle



- 1 X NEEDLE



4. **Eyepiece Adjustment:** The eyepiece can be adjusted for comfortable viewing. Gently pull or push the eyepiece up or down to find a suitable height.

### ADJUSTABLE EYE PIECE



### ADJUSTABLE MAGNIFICATION

Provides 100x, 600x,  
1200x



### LED ILLUMINATION

Built in LED light with  
reflecting mirror



Image: Close-up views illustrating the adjustable eyepiece, the revolving nosepiece for magnification changes, and the LED illumination system.

## OPERATING INSTRUCTIONS

### 1. Prepare a Slide:

- For prepared slides, simply select one from the included set.
- For blank slides, place a small, thin specimen (e.g., a piece of leaf, a few grains of salt) in the center of the slide. Add a drop of water or the included gum media if necessary, then gently place a glass cover slip over the specimen. Use the specimen slicer for very thin samples.

2. **Place the Slide:** Lift the stage clips on the microscope stage and carefully slide the prepared slide underneath. Release the clips to hold the slide in place. Ensure the specimen is centered over the opening in the stage.

3. **Activate Illumination:** Turn on the LED light source located beneath the stage. Adjust the mirror or light intensity if your model allows for optimal brightness.

4. **Select Magnification:** Rotate the revolving nosepiece to select the desired objective lens. Start with the lowest magnification (100X) for easier focusing and then increase as needed. The microscope offers 100X, 600X, and 1200X magnification options.

### 5. Focus the Image:

- While looking through the eyepiece, slowly turn the coarse adjustment knob (larger knob) to bring the specimen into rough focus.

- Once a general image is visible, use the fine adjustment knob (smaller knob) to sharpen the focus and reveal intricate details.

6. **Observe and Explore:** Adjust the slide position slightly to view different parts of your specimen. Experiment with different magnifications to see how details change.



Image: The microscope with visual examples of what bacteria, plant cells, insects, and stem structures look like at 100X, 600X, and 1200X magnification.



Image: A detailed view of the microscope's stage, showing the slide clips and the LED light source from below.

Your browser does not support the video tag.

Video: A demonstration of setting up and using the Kids Microscope Set, including placing slides and adjusting focus.

The set also includes various samples like brine shrimp eggs, gum media, eosin dye, and sea salt, along with a shrimp hatchery for observing live specimens.



## FASCINATING FACTS BRAIN FLIP

You see everything upside down, you just don't realize it... When your eyeball lens collects light, it puts the floor on the top and the ceiling on the bottom. It's only after your brain translates the info that the image gets flipped – back to the right side up!

BACTERIA

PLANTS

SHRIMP  
HATCHERY

INSECTS

STEM

SALT

INCLUDES THESE FUN ITEMS

Image: The microscope accompanied by hexagonal graphics depicting various samples that can be viewed, such as bacteria, plants, and sea salt.

## MAINTENANCE

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses to gently wipe the eyepiece and objective lenses. Avoid using abrasive materials or harsh chemicals.
- **Cleaning Body:** Wipe the microscope body with a soft, damp cloth. Do not use excessive water or cleaning solutions that could seep into electronic components.
- **Storage:** Always store the microscope in its original carrying case or a protective cover when not in use to prevent dust accumulation and damage. Ensure all accessories are stored neatly.
- **Battery Care:** Remove batteries if the microscope will not be used for an extended period to prevent leakage.



Image: The complete Discovery Kids #MINDBLOWN Microscope Set, including the microscope and all accessories, securely packed in its durable carrying case.

## TROUBLESHOOTING

**Problem: Image is blurry or difficult to focus, especially at higher magnifications.**

**Solution:** Ensure the slide is correctly positioned and flat on the stage. Start focusing at the lowest magnification (100X) and gradually increase. Use both coarse and fine adjustment knobs carefully. High magnifications (1200X) require very precise adjustments and may show more ambient dust or imperfections on the lens or slide.

**Problem: No light from the illuminator.**

**Solution:** Check battery installation and ensure batteries are fresh. Replace batteries if necessary. Verify that the light switch is in the 'on' position.

**Problem: Cannot see anything through the eyepiece.**

**Solution:** Ensure the objective lens is clicked into place directly over the specimen. Check that the light source is on and properly aligned. Make sure the specimen is thin enough for light to pass through.

## SPECIFICATIONS

| Feature | Detail         |
|---------|----------------|
| Brand   | Discovery Kids |

|                     |                                                |
|---------------------|------------------------------------------------|
| Model               | 48-Piece Microscope Set                        |
| Magnification Range | 100X to 1200X                                  |
| Light Source Type   | LED                                            |
| Material            | Metal (Framework)                              |
| Color               | Black with Silver Frame                        |
| Item Weight         | 3.7 pounds                                     |
| Power Source        | Battery Powered (2 AA batteries, not included) |
| Number of Items     | 48                                             |

## WARRANTY AND SUPPORT

For warranty information, technical support, or any questions regarding your Discovery Kids #MINDBLOWN Microscope Set, please contact the manufacturer directly. Refer to the product packaging or the official Discovery Kids website for contact details.

Your browser does not support the video tag.

Video: An overview of the Discovery #MINDBLOWN brand, highlighting its commitment to STEM education and scientific exploration.