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AmScope M30-ABS-KT1-W-WM

AmScope 1200X Kids Student Beginner Microscope Kit User Manual

Model: M30-ABS-KT1-W-WM

INTRODUCTION

This manual provides instructions for the proper setup, operation, and maintenance of your AmScope 1200X Kids Student Beginner Microscope Kit. This kit is designed to introduce young scientists to the world of microscopy with a durable and easy-to-use instrument.



Image: Overview of the AmScope microscope kit highlighting key features like magnifications, metal arm, illumination, and specimen stage.

PACKAGE CONTENTS

Verify that all items listed below are present in your kit:

- 1x Monocular Microscope with Metal Arm (120X-1200X magnification)
- 1x Eyepiece (8X)
- 1x Eyepiece (20X)

- 1x Carrying Case
- 1x Petri Dish
- 1x Plastic Tweezer
- 1x Spare Bulb
- 1x Plastic Scalpel
- 1x Plastic Spatula
- 1x Plastic Stirring Rod
- 1x Pipette
- 5x Prepared Slides
- 7x Blank Slides
- 16x Slide Labels
- 3x Collecting Vials
- 2x AA Batteries
- 1x "The World of The Microscope" Book

COMPLETE ACCESSORY KIT

RIGHT OUT OF THE BOX, THIS KIT IS THE PERFECT TOOL FOR YOUR BUDDING SCIENTIST.



- | | |
|---|-----------------------------------|
| 1 1X MONOCULAR 120X-1200X MICROSCOPE W/METAL ARM | 9 1X PLASTIC SPATULA |
| 2 1X EYEPIECE (8X) | 10 1X PLASTIC STIRRING ROD |
| 3 1X EYEPIECE (20X) | 11 1X PIPETTE |
| 4 1X CARRYING CASE | 12 5X PREPARED SLIDES |
| 5 1X PETRI DISH | 13 7X BLANK SLIDES |
| 6 1X PLASTIC TWEEZER | 14 16X SLIDE LABELS |
| 7 1X SPARE BULB | 15 8X SLIDE LABELS |
| 8 1X PLASTIC SCALPEL | 16 3X COLLECTING VIALS |
| | 17 2X AA BATTERIES |



Image: A detailed view of the complete accessory kit, including the microscope, eyepieces, slides, tools, and vials,

all neatly organized within the carrying case.

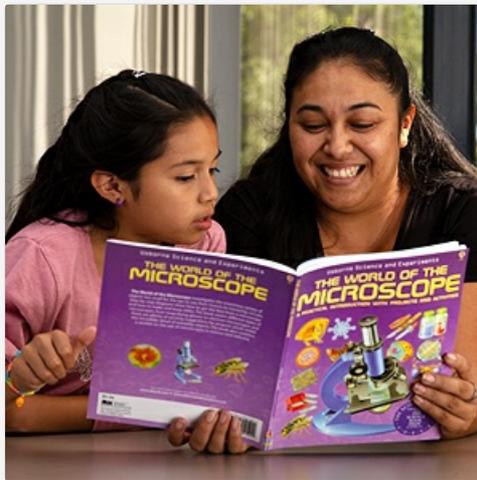


Image: The included "The World of The Microscope" book, designed to guide users through scientific exploration.

SETUP

1. **Unpack the Microscope:** Carefully remove the microscope and all accessories from the carrying case.
2. **Insert Batteries:** Locate the battery compartment at the base of the microscope. Insert 2 AA batteries, ensuring correct polarity.
3. **Place the Microscope:** Position the microscope on a stable, flat surface.
4. **Select Eyepiece:** Choose either the 8X or 20X eyepiece and insert it into the top tube of the microscope.
5. **Adjust Illumination:** The microscope features both an LED light and a reflecting mirror.
 - For **LED Illumination:** Turn the illumination switch to activate the built-in LED light.
 - For **Natural Illumination:** Rotate the reflecting mirror to direct ambient light onto the specimen.

PORTABLE CARRY CASE

READY TO GO, ALL-IN-ONE KIT
IN A RUGGED ABS CARRYING CASE



**2 AA BATTERIES
REQUIRED**



Image: A child holding the carrying case, with an inset showing the battery compartment at the base of the microscope where 2 AA batteries are inserted.

OPERATING INSTRUCTIONS

1. Preparing a Specimen Slide

- For **Prepared Slides**: Simply place a prepared slide onto the stage.
- For **Blank Slides**: Use the provided tools (pipette, tweezers, scalpel) to place a small, thin specimen onto a blank slide. Add a drop of water if necessary, and cover with a coverslip.

2. Placing the Slide

Place the prepared slide onto the microscope stage. Use the stage clips to secure the slide in place.



**Explore...
Learn...
Grow**

Discover the invisible world of wonder as you create your own mini experiments.

The perfect STEM activity for every child!

Image: An overview of the microscope, with a callout pointing to the specimen stage and clips, illustrating how slides are secured for viewing.

3. Adjusting Illumination

Ensure adequate lighting for your specimen. Use the built-in LED light for direct illumination or adjust the reflecting mirror to capture ambient light.



Image: A close-up view of the microscope's base, showing both the built-in LED light and the adjustable reflecting mirror for illumination.

4. Selecting Magnification

Rotate the revolving nosepiece to select an objective lens. Start with the lowest magnification (e.g., 120X) to locate your specimen, then switch to higher magnifications as needed. The total magnification is the eyepiece magnification multiplied by the objective lens magnification.

- Available Magnifications: 120X, 240X, 300X, 480X, 600X, 1200X.

5. Focusing

1. Look through the eyepiece.
2. Slowly turn the coarse focus knob to bring the specimen into approximate focus.
3. Use the fine focus knob for precise focusing and to achieve a clear image.



ONION CELLS



HONEY BEE LEG



LEAF CELLS



INTESTINAL CELLS

Image: Examples of various magnified cells (onion, honey bee leg, leaf, intestinal) as seen through a microscope, demonstrating the detail achievable.

MAINTENANCE

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses to clean the eyepieces and objective lenses. Do not use abrasive materials or harsh chemicals.
- **Cleaning Body:** Wipe the microscope body with a soft, damp cloth. Avoid getting moisture into electrical components.
- **Storage:** When not in use, store the microscope in its carrying case in a dry, dust-free environment. Remove batteries if storing for extended periods to prevent leakage.
- **Handling:** Always carry the microscope by its metal arm and base. Avoid sudden impacts or dropping the instrument.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No light from LED.	Batteries are dead or incorrectly inserted.	Check battery polarity, replace with fresh AA batteries.
Image is blurry or out of focus.	Incorrect focus adjustment; objective lens not properly aligned.	Adjust coarse and fine focus knobs. Ensure objective lens clicks into place.
Dark or uneven field of view.	Insufficient illumination; objective lens not fully rotated.	Adjust LED light or reflecting mirror. Rotate objective lens until it clicks into position.
Dust or spots visible in the image.	Dust on eyepiece, objective lens, or slide.	Clean lenses and slides with an optical cleaning cloth.

SPECIFICATIONS

Feature	Detail
Model Number	M30-ABS-KT1-W-WM
Magnification Range	120X, 240X, 300X, 480X, 600X, 1200X
Eyepieces	8X, 20X
Illumination	Built-in LED and Reflecting Mirror
Power Source	2 AA Batteries (included)
Body Material	Durable Metal Arm
Dimensions (L x W x H)	13 x 6 x 9 inches
Item Weight	3.65 pounds
Color	White

WARRANTY INFORMATION

AmScope products are designed for quality and durability. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official AmScope website. Keep your proof of purchase for warranty claims.

SUPPORT

For further assistance, technical support, or to inquire about replacement parts, please contact AmScope customer service. You can typically find contact information on the AmScope website or through the retailer where the product was purchased.

AmScope Official Website: www.amscope.com

