



EI-5301  
MICROSCOPE  
SET



# Educational Insights EI-5301 Microscope Set User Guide

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**Educational Insights EI-5301 Microscope Set**



## Welcome to the Microscopic World

Welcome to the hidden world of the microscope. Your new microscope is an instrument with lenses for making very small objects appear much larger so they can be studied. There are millions of tiny living plants and animals that can be easily seen with your microscope.

In today's technological world, every field of science utilizes microscopes. Microscopes are used by biologists for studying microorganisms, by geologists for studying rocks and minerals, by archaeologists for studying ancient artifacts, and by astronomers for studying fallen meteorites.

### Your microscope set contains the following parts:

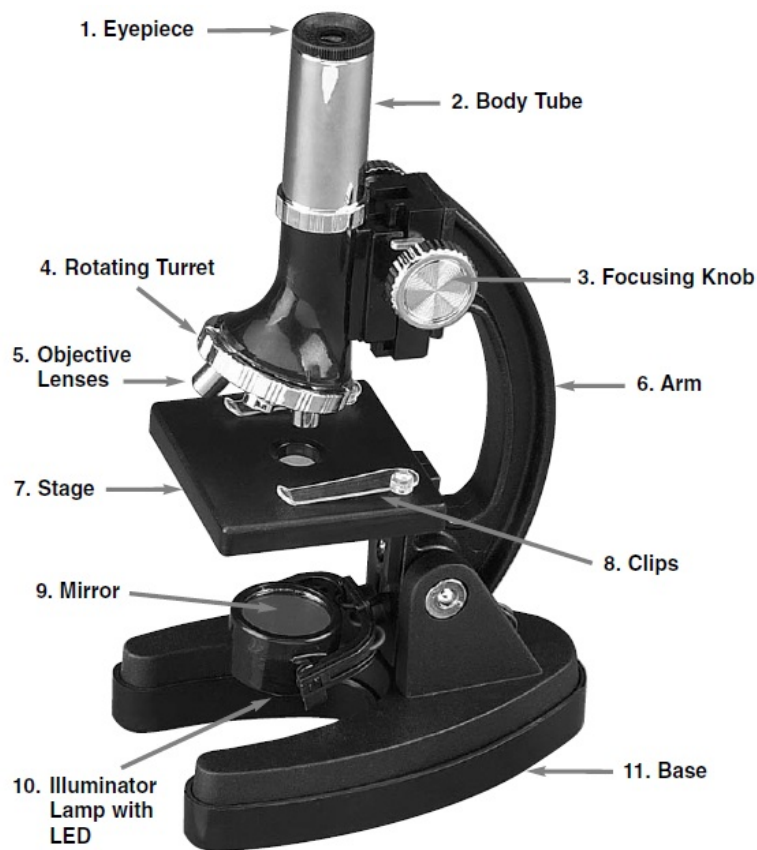
- 1 – Die-cast Metal Microscope
- 1 – 10X Eyepiece
- 1 – 20X Eyepiece
- 1 – Scalpel
- 1 – Spatula
- 1 – Stirring Rod
- 1 – Tweezers
- 1 – Test Tube with Cap
- 1 – Petri Dish
- 1 – Pipette
- 3 – Specimen Vials

- 3 – Prepared Slides
- 8 – Blank Slides
- 8 – Slide Labels
- 16 – Slide Covers
- Instruction and Activity Guide

### What are all of these things for?

- **Microscope** – The microscope holds samples of very small things on clear slides. It shines a bright light through the small sample, and then lenses make the sample look very big. Your microscope can make things look 50 times, 100 times, 150 times, 300 times, or even 600 times larger than the way you see them with your own eyes.
- **Eyepieces** – These eyepieces are special magnifying lenses that work with your microscope's other lenses.
- **Scalpel** – A scalpel is a sharp blade used to cut very thin pieces of material so you can look at them with your microscope.
- **Spatula** – The spatula has a large flat blade, but it is not as sharp as the scalpel. The spatula is used for scraping off bits of material for testing and to mash and flatten soft samples.
- **Stirring Rod** – Use this rod to mix fluids until they are well blended. An example is when you mix salt and water.
- **Tweezers** – The tweezers are used to pick up small specimens and to handle samples that you don't want to touch with your hands – like slimy mold!
- **Test Tube with Cap** – This thin, clear tube, used to hold liquid samples, makes it easy to observe if anything is happening, such as when a sample changes color.
- **Petri Dish** – This round, flat dish with a clear cover is used to grow and observe samples, such as molds.
- **Pipette** – This is a plastic device that you can dip into a liquid to transfer drops to a slide for examination.
- **Specimen Vials** – These are little plastic bottles with tight-fitting lids. They are used to carry your samples from where you collected them to where you have your microscope set up.
- **Prepared Slides** – These slides have samples on them that have been prepared by professionals for you to examine.
- **Blank Slides** – These are the clear slides that you will place prepared samples on for examination under your microscope.
- **Slide Labels** – These are little pieces of paper with sticky backs. You can write on them and stick them on your slides to record information such as when the sample was prepared.
- **Slide Covers** – These are little squares made of thin, clear plastic. They are used to cover very small samples on a slide. See the instructions in this guide for making temporary and permanent slides.

### Getting Acquainted with Your Microscope



## Learning About Your Microscope

1. **Eyepiece** – The eyepiece is where you look into the microscope. It is a small magnifying lens that collects the image projected up by the three objective lenses. Your microscope comes with two different eyepieces. The 10X eyepiece makes an image look 10 times larger. The 20X eyepiece makes an image look 20 times larger.
2. **Body Tube** – This is the main tube of the microscope. The image from the sample travels up this tube to the eyepiece.
3. **Focusing Knob** – Turn these knobs very slowly to bring the image of your sample into focus so you can see it clearly.
4. **Rotating Turret** – The turret holds the three objective lenses. Turn the turret so that each lens clicks into position.
5. **Objective Lenses** – The objective lenses are the lenses closest to the objects you are examining. Your microscope has three objective lenses, each with a different magnifying power. The shortest lens has the lowest magnifying power (5X). The longest lens has the highest magnifying power (30X). The third lens has a magnifying power between the two (15X). The objective lenses work with the eyepieces to give your microscope a range of magnifications. With the 10X eyepiece in place, your microscope makes samples look 50 times (50X), 150 times (150X), and 300 times (300X) larger than they appear to your eyes. With the 20X eyepiece in place, your microscope makes samples look 100 times (100X), 300 times (300X), and 600 times (600X) larger than you can see them with your own eyes.
6. **Arm** – This curved piece is the “backbone” of the microscope and holds everything together. You can tilt the arm backward to get a more comfortable viewing position.
7. **Stage** – The stage is the flat platform where your slides are held for studying.
8. **Clips** – The two clips on the stage hold your slide in position so that it doesn’t move around while you are looking at it.

9. **Mirror** – The mirror aims at light from a bright source, like a sunlit window or a table lamp, up through the slide you are studying so you can see the specimen more clearly.
10. **Illuminator Lamp** – When there is not enough light available for the mirror to do its job, turn the mirror over and the bright electric LED illuminator will light your sample.
11. **Base** – The bottom of the base has a rubber cover to help prevent your microscope from slipping on a smooth tabletop.

## Microscope Safety Tips

Keep these safety tips in mind as you enjoy hours of fun projects and experiments with your microscope.

- Read all instructions before use. Follow them and keep them for future reference.
- Keep small children and animals away from any experiments or projects.
- When working with samples, keep your hands away from your mouth and eyes. Eye protection is not included.
- Always wash your hands carefully after handling any samples and always dispose of any samples in a safe manner.
- Handle the prepared slides carefully. They are made of glass.
- Store your microscope set out of reach of small children.

## Taking Care of Your Microscope

- Always handle the microscope with two hands—one hand around the arm and another around the base.
- Always remove and clean the slides from the microscope stage after each use.
- Place the microscope in a case, or cover it with a plastic bag after each use.
- Clean your microscope with a damp or dry cloth—do not immerse or spray liquid or water on the microscope.

## A Special Reminder About Lenses

The most important parts of your microscope are the lenses. Handle them with care. If the lenses are dirty or dusty, you can clean them with a soft cotton cloth or a special lens-cleaning tissue. Do not wipe them with a finger or a regular facial tissue. Avoid any direct contact between the viewing lenses and the stage. When changing eyepieces, work carefully, but quickly, to avoid introducing dust into your microscope. Always return the lens cap to the eyepiece when finished.

We constantly improve and update our products. Sometimes, as a result of these improvements, what is seen on the package or in the instructions may differ somewhat in color or content from the product in the package.

## Getting Started

1. Insert two AA batteries into the base of the microscope, following the instructions on page 18.
2. Place the microscope on a flat surface near a bright light or, in the daytime, a window. Locate the mirror and adjust the angle so that when you look into the eyepiece you see a bright circle of light. Do not point the mirror towards the sun as eye damage may result. If there is no bright light available, or if the room lighting is poor, use the microscope's electric illuminator lamp. To turn on the illuminator lamp, flip the mirror over so that the light bulb is aimed upward. The light will come on by itself. Look through the eyepiece and adjust the angle of the light until you see a bright circle.



3. Once you can see a bright circle of light in the eyepiece, your microscope is ready for use.
4. Choose one of the prepared sample slides from your set. Place it under the two spring clips on top of the stage.



5. Next, choose the magnifying power you want to use. Your microscope can provide magnifying powers of 50X, 100X, 150X, 300X, and 600X. Remember that the longer objective lenses used with the higher magnification 20X eyepiece provide the higher powers. For optimal viewing, start at the lowest power and work your way upward. Most observing is done at low power.
6. To change the magnifying strength, turn the rotating lens turret until you hear a click.



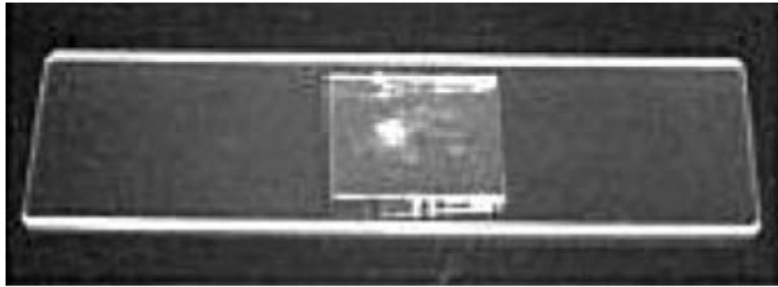
7. Turn the focusing knob until the objective lens is almost touching the slide. Don't let the lens touch the slide as you may break the slide and damage the lens. Now look through the eyepiece and slowly turn the focusing knob back until you see the sample clearly.
8. To change the eyepiece, simply unscrew it from the body tube and replace it with the other eyepiece.

## How to Make a Prepared Slide

Samples for examination should be very thin so that light can pass through them. If the sample is too thick, it will appear dark in the microscope. Cloth fibers, pollen, dust, or salt crystals will be easy to see and make good samples for you to observe. If the sample is very thin and clear, a drop of red or blue dye may make the details show more clearly. You can obtain dyes from a science supplies shop. You can also try making a natural dye by putting a slice of beetroot in a blender and using the purple-red beet juice as a dye. Be sure to get an adult's permission first. Transfer a drop of the dye to your slide with the pipette. Be careful with dyes as they can stain clothing, furniture, or carpets.

## Making a Temporary Slide

1. Wipe the slide clean.
2. Prepare a thin sample. You may have to slice it with a scalpel or a razor blade. Be very careful. Check with an adult before using any sharp tools for slicing specimens.
3. Pick up your sample with the tweezers and put it on the center section of the slide. Add one drop of water. If needed, you can now add a drop of dye.
4. Gently place a temporary slide cover over the sample, being careful not to allow any air bubbles in.
5. Remove any excess water or dye with a piece of paper towel by pressing it down gently over the slide cover.
6. Now you can observe your slide.



## Making a Permanent Slide

1. Start with a clean slide and cover.
2. Follow Steps 2 and 3 as above.
3. Before placing the cover over your sample, add several drops of Gum Media, Canada Balsam, or other commercially available mounting adhesive. Or use a piece of transparent tape.
4. Place the cover gently over the sample and carefully squeeze out any air bubbles.
5. Place your new slide in a safe place and let it dry for a day.

**IMPORTANT NOTICE:** Wash your hands before and after preparing slides and after every project. Use warm water and soap. Also wash any of your microscope kit equipment that you may have used. Make sure that an adult knows what you are doing and is available to help you.

## TROUBLESHOOTING FAQs

### What can I see with my microscope?

- You can see thousands of things that are difficult or impossible to see with your eyes. You can see tiny plants and animals. You can observe plant and animal cells. You can see the differences between different plants, different papers, different fibers, and hairs from different people. You can study crystals, rocks, and minerals. The uses for your microscope are practically endless.

### What is meant by power?

- Power is a measure of the seeing ability of your microscope. It is really a short way of saying “magnifying power.” Your microscope has five powers. They are 50X (pronounced “50 times”), 100X, 150X, 300X, and 600X. This means that your microscope can magnify the view of a sample so that it appears 50 times, 100

times, 150 times, 300 times, or 600 times larger than the way you see it with your own eyes.

**I look through my microscope and all I see is darkness. Why?**

- This could be because the mirror is not positioned properly to aim light up into your microscope. Another reason may be that the sample you are looking at could be too thick for the light to shine through it.

**All I can see is a partial circle of light. Why?**

- To see your sample properly, you need to have even light shining up through the slide. If you are using the mirror for light, try gently moving it about while looking through the microscope until you see an evenly lit full circle.

**I have a very thin sample on my slide, but I can't see any detail.**

- First, make sure that the image is in sharp focus by adjusting the focusing knobs. If the problem still exists, add a drop of red or blue dye to the sample. Dyes make hard-to-see objects like plant cells stand right out.

**PROJECT #1: Cloth Fibers**

**You will need:** a microscope and scissors to cut small samples of scrap pieces of cloth of different types of clean, blank slides

- All types of cloth are made from long, thin strands called fibers. Some, like wool, come from animals. Others, like cotton, come from plants. Still others are made from chemical actions. Nylon and polyester are samples of man-made fibers.
- Take small samples of various fibers, such as cotton, wool, and polyester. Put one sample at a time between two clean, blank slides like a sandwich. Put the slide sandwich under your microscope. Can you see the difference between natural and man-made fibers?
- Look at how tightly the strands are wound. Some are very tight and smooth. Others are loose and spiky. The loose fibers can trap air. This trapped air can help to keep you warm. Compare a wool fiber with a polyester fiber. Which one do you think will keep you warmer?

**Notes:**



Type of cloth fiber	Is it man-made or natural?	Are the fibers tightly wound?	Are the fibers loose and spiky?	Will it keep you warm?

## PROJECT #2: Animal Fur

**You will need:** microscope 2 or more clean, blank slides samples of different types of fur and hair

- An animal's fur is similar to the hair on your head. Like your hair, it protects the skin underneath from cold, heat, and sunburn. Animals have different kinds of fur. Some animals have fine, smooth fur. Others have stiff, bristly fur. Some fur is short, and some fur is long. Long-haired animals can stay warm even when it is very cold. Their fur traps and holds a layer of warm air next to their skin. This is called insulation.
- Study samples of fur from cats, dogs, and even your pet hamster. Check paintbrushes you may have around the house. Some small paintbrushes have hairs from squirrels. Other brushes may have bristles from pigs.
- Put several strands of animal hair or fur in between a slide sandwich like you did with the cloth fibers and look at them under your microscope. If you look closely at 600X magnification, you might see small rough lines going around each hair. These are growth lines. If there is a large space between these lines, the hair is fast-growing. A lot of small spaces between lines indicate a slow-growing hair.
- Pull out a single hair from your head. (Ouch!) Does it look like any of the animal hairs?

**Notes:**

Sample #	Where is it from?	Is the hair smooth?	Would it keep the animal warm?	Can you see growth rings?
#1				
#2				
#3				
#4				
#5				
#6				

### PROJECT #3: Leaves

**You will need:** microscope 2 or more clean, blank slides different types of leaves

- Plants breathe through their leaves! Most leaves have small holes in their underneath side called stomata. Plants breathe in carbon dioxide from the air and release oxygen back out. People do the opposite. We breathe in oxygen and breathe out carbon dioxide. In this way people and animals help plants and they help us. The scientific name for a relationship like this is a symbiotic relationship.
- Collect leaves from different tree and plant types. The needles of pine, fir, and spruce trees are also leaves, but they look a little different.
- If you gather your leaves in the spring and summer, they will be mainly green. In the fall and winter they may be red or brown or orange—all except the small fir, pine, and spruce needles. They stay green all year round. The trees from which these leaves come are called evergreens.
- Look closely at your leaf samples at 300X magnification. Look for patterns of lines running through the leaf. These are the veins of the leaf, and they carry nutrients, or energy food, back and forth between the leaf and the main plant. A plant's leaves are like tiny food factories. Chlorophyll, a green chemical in leaves, traps energy from sunlight. The plant uses this energy, water, and carbon dioxide to make food in a process called photosynthesis.

**Notes:**

Sample #	What plant is it from ?	What color is it?	Can you see the veins?	Can you see the stomata?
#1				
#2				
#3				
#4				
#5				
#6				

#### **PROJECT #4:** Dirt and Sand

**You will need:** microscope several clean, blank slides several slide covers samples of dirt and sand from different places specimen vials to hold the samples pipette water

- Dirt can have small pieces from rocks in it. It can also have lots of organic material. This is made up of decomposed plant and animal material. Dead leaves and grass get broken down and eaten up by friendly bacteria and small animals like earthworms. Dirt that has lots of organic material in it is called loam, and it is very good for growing flowers and vegetables.
- Sand can be made up of small grains of different rock types that have been broken down from bigger pieces. There can also be tiny fragments of shells from long-gone sea creatures. In some places the beach sand is black because the fine particles have been worn down from pieces of coal!
- Collect dirt and sand from around your house and from different beaches. Bring small samples home from a vacation. Use the specimen vials in your microscope kit to hold the samples. Place a very thin layer of each sample on a slide. You will see many small types of particles. Then add one drop of water and place a slide cover over the sample.

#### **Notes:**

- What do you see in your samples of dirt and sand? Which samples would make good garden soil? Be sure to wash your hands when you are finished.

Material	Sample 1	Sample 2	Sample 3	Sample 4
Rock Samples				
Shell Particles				
Small Pieces from Plants				
Coal Particles				
Insect Parts				

### PROJECT #5: Paper

**You will need:** microscope 2 clean, blank slides writing paper, tissue paper, newspaper paper towel pen water

- Paper can be made from many things. Most paper is made from trees. Sometimes the paper maker adds finely chopped cotton rags. Other types of paper are made from paper that has been used before.
- Paper can be thick or thin. It can be smooth or rough. It can be very strong or very weak. Paper is used to write on, to make packages with, to clean up spills, to blow your nose on, and even to make clothes with. Paper to write on is smooth, while paper tissues are soft. Paper towels are thick, while newspaper paper (called newsprint) is thin.
- Get different types of paper and compare them. Try to write on them. Try to clean up a few drops of spilled water with each type. Then place small pieces of the different paper samples between two slides and look at them through your microscope. If you look at small pieces from a magazine or newspaper, you will see that the pictures are printed with tiny dots of colored ink.

**Notes:**

	Writing Paper	Newsprint	Paper Towel	Facial Tissues
Can you write on it with a pencil?				
Can you write on it with a pen?				
How well does it pick up spilled water?				
How strong is it?				
How smooth is it?				

Through your microscope you should have noticed that tissues and paper towels have soft, fuzzy fibers that have big air spaces between them. These air spaces can also hold water, which is why these two samples did well picking up the water spill. The writing paper did not have these air spaces and did not pick up water very well. The newsprint did not work well either because its fibers are also closely packed.

#### **PROJECT #6:** Pond Water

**You will need:** microscope a pail or bucket an empty jar pipette clean, blank slides slide covers

- Get a sample of water from a pond in a wooded area. It is best to get a sample in the late spring or summer. Dip your pail or bucket in the pond to fill it. Let it stand still for about a half-hour. Then dip your jar to the bottom of the pail and try to get some of the sludge that has settled to the bottom. Use your pipette to place a drop on a blank slide and place a slide cover over it. To do this, stand the slide cover on end next to the drop. Gently let it fall onto the drop. Push it lightly with a toothpick, but not hard enough to squash any little animals. If water has squeezed out around the edges, you can touch a tissue to it to clean it up. Look through your microscope. Start at 100X and work upward.
- What are all of the small things you see? Are some of them alive? You will see small bits of dirt and vegetation. If you are lucky, you may see small creatures moving around. Some of these are tiny baby insect larvae. Others are very tiny animals that live in the water and feed on the vegetation and on the insect eggs and larvae. Make careful notes and drawings of what you see.

Things I saw in pond water:

#### **PROJECT #7:** Friendly Bacteria

**You will need:** microscope clean, blank slides slide covers pipette yogurt (must say "active cultures" on the label) water petri dish

- Bacteria are very small life forms that you can only see through a microscope. Some bacteria make us feel sick. Some bacteria are friendly. Do you like yogurt? Did you know that friendly bacteria turn milk into yogurt?
- Put a drop of natural yogurt on a slide. Mix it with a drop of water and put a slide cover over it. The sample should be spread very thinly. Look through your microscope. Scan the area carefully at 300X and 600X. Try to look at the thinnest areas. You should see small round objects. These are the friendly bacteria.
- Place several drops of yogurt in a petri dish or sample vial. Mix it with several drops of warm water. Do not cover your sample. Place it somewhere relatively warm and out of reach. Wait for one day. Using your pipette, place a drop or two of your sample on a slide and cover it with a slide cover. Look for more bacteria.
- You will probably see more bacteria. They were in the air and landed on the yogurt. There may be different shapes than you saw the day before. Draw pictures of what you saw in the boxes provided below.
- Wash your hands thoroughly. Place the slide cover in the garbage. Wash the slide in hot, soapy water with several spoonfuls of liquid bleach added. Ask your parents to help you because bleach can hurt you, and the bottle is heavy. Wash your hands again.

#### **Notes:**

- Friendly Bacteria
- Other Bacteria

#### **PROJECT #8: Crystals**

**You will need:** microscope 2 clean, blank slides string a drinking glass very warm water (enough to almost fill the glass) a spoon (to measure and stir with) table salt sugar

- Take a piece of string about 3 inches (7.6 cm) long and tie it around the center of an old pencil. Now take a small drinking glass and almost fill it with hot water from the tap. Be careful not to burn yourself. Stir in a spoonful of salt until it is well mixed and has all dissolved. Now add another spoonful and stir it well. If all of the salt dissolves in the water, try to mix in a third spoonful.
- Now place the pencil across the top of the glass so that the string is hanging in the salt water. Place the glass somewhere safe where small children cannot reach it. Do not move the glass around. Let it sit undisturbed for a day and then examine the string.
- Leave it another day and examine the string again.
- You will see small white cubes growing on the string. These are salt crystals. This crystal structure is salt's basic shape.
- Try the same experiment with a strong solution of sugar. Sugar also has a crystal shape. Is it the same as a salt crystal? Can you tell them apart?
- Look at some of the crystals you have grown under your microscope. Sometimes the little cubes will join together in strange or beautiful shapes.

#### **Notes:**

- Salt Crystals
- Sugar Crystals

## More Microscope Investigations

**Always keep your eyes open to find other ways to use your microscope. Here are two examples:**

- **Toothbrushes**—Compare the bristles of a new toothbrush to some from an old, well-used one. Can you see why you should not use the same toothbrush for a long time?
- **Printing**—Compare printed material from different sources. Compare a postage stamp with a piece of a newspaper or magazine picture. Can you see the fine dots? How many different colors of dots are there? How can dots of so few colors make all of the colors you see in a color magazine picture?

## Battery Installation and Instructions

1. Loosen the screws in the bottom cover of the microscope and remove the cover.
2. Install 2 AA batteries following the diagram inside the compartment.
  - Do not mix old and new batteries.
  - Non-rechargeable batteries are not to be recharged.
  - Do not use rechargeable batteries.
  - Do not mix different types of batteries: alkaline, standard (carbon zinc), or rechargeable batteries.
  - Only batteries of the same or equivalent type are to be used.
  - Remove exhausted batteries from the unit.
  - The supply terminals are not to be short-circuited.
  - To prevent corrosion and possible damage to the product, it is recommended to remove the batteries from the microscope if it will not be used for more than two weeks.
3. Replace the cover and tighten the screws. Do not over-tighten.

Developed in Southern California by Educational Insights.

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## FREQUENTLY ASKED QUESTIONS

What is the magnification range of the Educational Insights EI-5301 Microscope Set?

The Educational Insights EI-5301 Microscope Set offers a maximum magnification of 600x.

What power source does the Educational Insights EI-5301 Microscope Set use?

The microscope in the Educational Insights EI-5301 Microscope Set is battery-powered and requires 2 AA batteries.

What type of light source does the Educational Insights EI-5301 Microscope Set use?

The Educational Insights EI-5301 Microscope Set utilizes LED light for illumination.

How large is the Educational Insights EI-5301 Microscope Set?

The product dimensions are 3.8 x 10 x 13 inches.

What is the weight of the Educational Insights EI-5301 Microscope Set?

The Educational Insights EI-5301 Microscope Set weighs 1.85 pounds.

What is the price of the Educational Insights EI-5301 Microscope Set?

The Educational Insights EI-5301 Microscope Set is priced at \$59.99.

What is the real angle of view for the Educational Insights EI-5301 Microscope Set?

The real angle of view for the Educational Insights EI-5301 Microscope Set is 45 degrees.

How does the LED light in the Educational Insights EI-5301 Microscope Set benefit users?

The LED light provides bright and clear illumination of specimens, making it easier to view and analyze samples.

Can the Educational Insights EI-5301 Microscope Set be used for professional purposes?

While it is designed primarily for educational use, the Educational Insights EI-5301 Microscope Set can be used for basic scientific exploration and learning.



What materials are used in the construction of the Educational Insights EI-5301 Microscope Set?

The Educational Insights EI-5301 Microscope Set is made from durable plastic and includes high-quality optical lenses for clear magnification.

How does the Educational Insights EI-5301 Microscope Set compare to other educational microscopes?

The Educational Insights EI-5301 Microscope Set is noted for its high magnification capability, LED illumination, and comprehensive accessory kit, making it a robust choice for educational purposes.

What age group is the Educational Insights EI-5301 Microscope Set appropriate for?

The Educational Insights EI-5301 Microscope Set is suitable for children ages 8 and up, as well as beginners interested in microscopy.

Where is the Educational Insights EI-5301 Microscope Set manufactured?

The Educational Insights EI-5301 Microscope Set is manufactured by Educational Insights, a company known for its educational products.

Why is the Educational Insights EI-5301 Microscope Set not turning on?

Ensure that the batteries are correctly installed and fully charged. If the microscope still doesn't turn on, try replacing the batteries or check for any loose connections within the battery compartment.

What should I do if the Educational Insights EI-5301 Microscope Set's light source is dim or flickering?

A dim or flickering light may indicate weak batteries. Replace them with fresh ones. If the problem persists, check the light bulb or LED for any damage and consider replacing it.

**DOWNLOAD THE PDF LINK:** [Educational Insights EI-5301 Microscope Set User Guide](#)

**REFERENCE:** [Educational Insights EI-5301 Microscope Set User Guide-Device.Report](#)

## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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