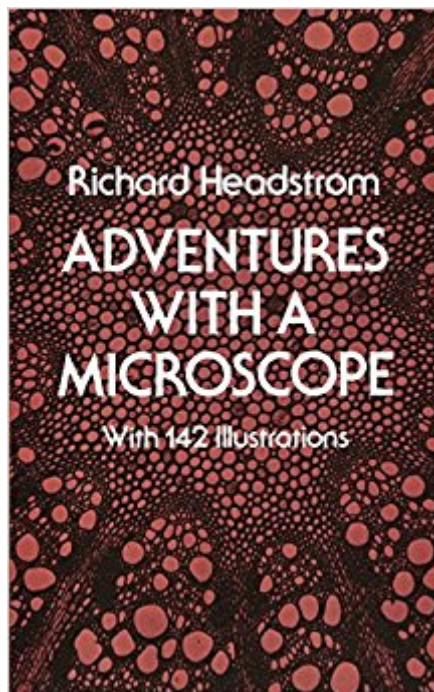


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# Adventures With A Microscope



## Synopsis

With a simple microscope and this book, you can embark on 59 wonderful adventures in the natural world – make discoveries about the structures of numerous microscopic animals; find out what everyday objects and foods really look like at the cellular level; gain an understanding of how to prepare specimens and slides; and learn about many scientific phenomena such as how a fly can walk upside down on the ceiling. It's all here in simple-to-understand language and 142 clear line drawings. The author first examines under the microscope such everyday objects as a human hair, air bubble, scale of a herring, poppy seed and sugar crystal, and then offers through-the-microscope views of such creatures and objects as the water flea, hydra, house fly, amoeba, euglena, volvox, diatoms, desmids, algae, blood corpuscles, honey bee, rotifer, water-mites, potato starch, and other food substances, lichen, paramecium, coffee, sponge, chalk, yeast, bacteria, mustard, pepper, bryozoan, moss, mushroom, molds, cotton, and other textile fibers, ferns, dragon-flies, flea, spider, roots, and other plant structures, paper, aphid, fingerprints, nervous system of the grasshopper, and more. Richard Headstrom, formerly associated with the New England Museum of Natural History and an experienced teacher and writer on natural science for young people, has made this book simple enough for any beginner at home as well as interesting for more experienced students and lay readers. Enjoyable and instructive, these adventures with a microscope will appeal to all who are curious about what there is to see beyond the range of the naked eye.

## Book Information

Paperback: 232 pages

Publisher: Dover Publications; Reprint edition (June 1, 1977)

Language: English

ISBN-10: 0486234711

ISBN-13: 978-0486234717

Product Dimensions: 5.4 x 0.5 x 8 inches

Shipping Weight: 8 ounces (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 26 customer reviews

Best Sellers Rank: #91,343 in Books (See Top 100 in Books) #12 in [Books > Science & Math > Experiments, Instruments & Measurement > Scientific Instruments](#) #65 in [Books > Science & Math > Reference](#) #121 in [Books > Science & Math > Nature & Ecology > Reference](#)

Age Range: 8 and up

Grade Level: 3 and up

## Customer Reviews

someone has given you a microscope for your birthday or Christmas or some other gift giving day. You have examined it, gone to the pantry after looking at the prepared slides that came with your gift and taken samples of what is available there, then gone out into the kitchen, maybe the bathroom. taken dust samples from other rooms and looked at all of them. You were impressed with what you saw but in most cases that is all it was, impressed, you did not know what you had seen. Now it is time for Headstrom's book, this is the only place where it earns the five stars I have given it. You need to know where to go to get samples, you need to know how to draw those samples, and you need to know what you are looking at in these samples. Headstrom's book does this for many things. There is a caveat connected with all this. The book is old and even when new it needed an additional book to go along with it. The book is written for amateurs and gives the parts of a microscope and lists a number of supplies to go with the microscope. Where does one get these supplies? Some can be procured from the manufacturer of the scope but most can not. Some are obsolete, some are unobtainable and some have been replaced by more modern equivalents. Catalogs from scientific supply houses may supply the answer, thus they they become a necessary adjunct to Headstrom's book. However this does not detract from his purpose, a little bit of taxonomy, a little bit of origins, and a lot of information. One of the big faults in his book is his lack of specifying the magnification necessary to be used when viewing the specimens. Even better would be a digression into the uses of different magnifications and what each is useful for in viewing the specimen. There are a lot of books out there, there may be one with this information. If so, anyone who knows of such, please let me know as well as others seeking this information.

This a good book for a beginner to have. The projects are well explained and easy to understand. The book is written at a middle school level. My 9 year old and I read a project each night. The introduction to the evolution of the microscope was very interesting. There is a complete list of things you should have as a science kit. That list was written years ago, now-a-days, if my daughter took this science kit to school, the school would be placed on lock down and she would be sent away to a juvenile detention center.

The book contain numerous "adventures" with a microscope, that is instructions how to deal with different biological objects and drawings of details to be looked for. The idea is very good, and gives

the investigator a wide range of objects to be investigated. I like diagrammatic drawings, but this book needs a second edition with crisp illustrations, some arrows for critical details, and a few microphotos in color. The list of equipment and chemicals needed is OK, but the user will today face a problem to buy some of them, and for an inexperienced user detailed procedures would be helpful. Therefore, newbies ought to contact a club or active association for amateur and professional microscopy, lead by professionals with the knowledge and authority to buy and handle chemicals and access to labs. Such associations exist in the US, UK and Germany - and some have local clubs arranging field excursions, where interesting material may be collected. The immediate examination of fresh material is always a must - and this book is useful. Dag Klaveness, Norway

I am still reading it but it was the book I was looking for as other reviewers noted it was written a long time ago and is dated in some respects, but the information on the things under the microscope is what I wanted to know and that has not changed. I wish someone would update it with pictures but it is still a valuable reference for any one interested in microscopes it also gives you a lot of ideas on what to look for or at.

My 12 year old Grandson could not put this book down that I bought with a microscope.

This book was a gift to my grandson who is nine. His Mom is a teacher and reviewed the book after they received it. She said it is an excellent companion to the microscope which he received for a Christmas gift. It is practical and worthwhile for using the gift.

I haven't used a microscope in about 40 years. I needed a good basic technique book as a refresher. This is an older book that uses some preps I would not use today, but the technique sections are just what I was looking for.

Good for eighth grade homeschool, especially when used with a microscope and images and video clips of the subjects found on the internet.

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