

## 4 New Books! 8 Titles in Series!

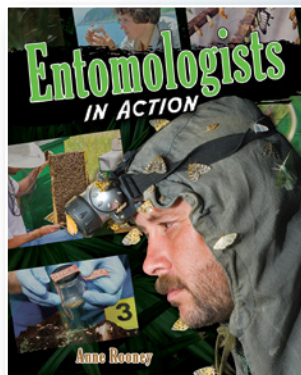
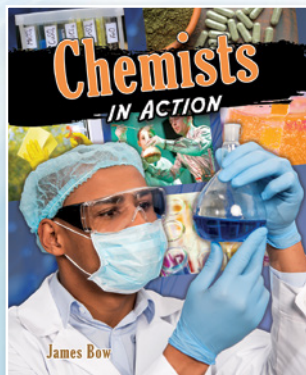
# Scientists IN ACTION

Four new titles have been added to this series about the fascinating world of today's working scientists. Each book examines the great variety of scientific work within a particular field and describes how questions get answered. Processes and practices are explored, with an emphasis on the creative and collaborative aspects of the work. Mini-bios highlight the work of current scientists from all over the world, and hands-on investigations create authentic learning experiences. Each book includes a look at the future of the field and provides practical suggestions for readers to take an active role to further their learning.

### Specifications:

Reading Level: Grade 5  
Interest Level: Grades 5-9+  
32 pages, 8 x 10", full color

**\$20.70 RLB**  
**\$8.95 PAP**



### Biologists in Action by Anne Rooney

Biologists study life, from tiny organisms to the largest animals on Earth. This exciting new book takes a look at how biologists work in fields of study such as zoology, botany, ecology, microbiology, and molecular biology. Readers will learn how biologists work in the field and in labs, and how their work applies to the lives of every living thing on the planet.

ISBN 978-0-7787-5204-2 RLB ISBN 978-0-7787-5208-0 PAP  
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### Chemists in Action by James Bow

Chemists study matter. The medicines we use, the chair you are sitting on, and the vehicles we drive are products that chemists helped produce. This compelling new book examines the many fields of work made possible because of chemistry.

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### Entomologists in Action by Anne Rooney

Are you fascinated by insects? Welcome to the field of entomology. This book shows how entomologists study insects to learn about Earth's history, find ways to prevent the spread of diseases some carry, use insects in agriculture, and much more. With an estimated 1.3 million species, there's always something new in the world of insects.

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### Food Scientists in Action by Robin Johnson

Food scientists apply their knowledge of chemistry, biology, and other sciences to the study and analysis of food. This compelling title explains how food scientists search for ways to improve the ways food is grown and prepared commercially for thousands of people.

ISBN 978-0-7787-5207-3 RLB ISBN 978-0-7787-5218-9 PAP  
ISBN 978-1-4271-2159-2 eBook

- Supports STEM (Science, Technology, Engineering, and Math) initiatives
- Supports Common Core State Standards for Reading Informational Texts (Grade Five)
- Mini-biographies and hands-on investigations reinforce science content, develop problem-solving and collaboration skills, and inspire career pathways

### From Biologists in Action

## BIOLOGISTS IN ACTION

In the rainforest of Borneo in southeast Asia, poachers illegally trap and kill pangolins, strange-looking mammals with scaly bodies. They sell pangolin scales in China as an ingredient in traditional medicines. Biologists are scientists who study living things. Here, conservation biologists monitor the pangolin's decreasing numbers and help find ways to prevent poaching. At the same time, large companies are clear-cutting areas of rainforest to grow palm oil for the food industry. This threatens the habitats of pangolins who raise their young in hollow trees. Biologists are working alongside foresters to advise them on how best to conserve the forest ecosystem.

### What is a biologist?

Biologists study organisms of all kinds, including plants, animals, and microorganisms that can only be seen through a microscope. They work in the field and in laboratories to observe and measure how organisms behave, grow, and function. Biologists also look at whole communities of organisms to discover how they interact with each other and their environment.

A biologist holds a three-month-old orphaned pangolin.



### Working with organisms

Some biologists work with organisms, such as bacteria, fruit flies, or mice, grown and bred in laboratories. Other kinds of biologists collect plants, fish, insects, or other organisms from the wild. Others observe larger organisms such as gorillas, trees, or sharks in their natural settings.



Marine biologists monitor changes in plants and animals in fresh water and saltwater habitats.

### Building knowledge

The work of biologists builds our knowledge of life in all its forms. It leads to advances in medicine when biologists figure out what causes a disease and find new ways to treat it. It contributes to conservation and brings improvements to farming and food. In this book, we will examine how biologists use science practices to guide their investigations and make discoveries in their field.

### From the Field: Holly Fearnbach

Holly Fearnbach is a marine biologist who specializes in the health of marine mammals such as dolphins and whales. She uses drones to photograph animals, and keeps track of the weight, health, and pregnancies of individual animals. She examines the bodies of animals that die when they become stranded. She even captures samples of water from whales' blowholes to examine the microbes that live in their lungs.