

Careers in Science

Learn about different **scientific careers**, and what scientists study as you explore these exhibits about last ice age in western New York, mastodons, and early humans.



- What do scientists study?
- What tools and knowledge do scientists need to do their job?
- What evidence do scientists have that glaciers were here?



BOTANIST

- Use the “Changing forests” exhibit to study how forests changed in western New York over the last 13,000 years.
- What differences do you notice between each diorama?



ANTHROPOLOGIST

- Use the “Views of Nature” exhibit; listen to each story.
- How have humans and daily life in Rochester changed over the last 10,000 years?



GEOLOGIST

- Use the Mendon Ponds virtual hike exhibit to study how glaciers changed our landscape.
- What evidence shows that glaciers were in western New York?
- Visit the ice cave to study other evidence that glaciers once towered over Rochester.



PALEONTOLOGIST

- Dig for mastodon bones in the dig site. What can you find? Watch the video to see a real mastodon dig in action.
- Study the mastodon bones in the case next to the dig site. What differences do you see between the two mastodons?



PALEO-BIOLOGIST

- Visit the animal exhibits (stag, moose, mastodon, dinosaurs); which animals once lived here?
- Study the tundra mural by the ice cave. What animals do you see?



ARCHAEOLOGIST

- Study the butchering mural.
- What is each person doing to help prepare the mastodon?
- Watch the video of early humans. How did people use animals in the past?



How to use this guide

To help guide your visit, we have developed this learning pathway to explore a specific topic using some of the exhibit components.

1. Look up the words in bold in the vocabulary list on the back.
2. Continue your investigations into other areas of the museum by checking out “Where To Learn More” on the back of this page.
3. Follow this path as you explore the gallery, try a different path, or create your own path and follow where your curiosity takes you!



Scientists are **specialists** in a particular field of study. Some scientists conduct research in the field, while others study in laboratories, or both settings. Still other scientists are teachers, college faculty, or work for museums and other not for profit organizations. **Botanists** study plants; **geologists** study rocks and minerals; **paleo-biologists** study prehistoric life forms such as mastodons and dinosaurs; **anthropologists** study human cultures; **paleontologists** study fossils and ancient life; and **archaeologists** study ancient human civilizations.

Where to find more...

Exhibits

- AdventureZone
- Old Rochester
- How Things Work
- At the Western Door
- Native Peoples

Other Experiences

- Carlson Inquiry Room

Read More About It!

Heather Hammonds

Geologists

MacMillan/Australia, 2004

Patricia J. Murphy

Peeking at Plants with a Scientist

Enslow Elementary, 2004

Peter Chrisp, Linda Martin (Editor)

DK Readers: Dinosaur Detectives

DK Publishing, Inc., 2001

Olga's History PROJECT: Page 1

<http://www.history.rochester.edu/class/rocks/olga.html#contents>

Rochester Geologic Timeline

www.vintageviews.org/vv-tl/timeline/geology.html

Descent Into the Ice

http://www.pbs.org/wgbh/nova/teachers/viewing/3104_mtblanc.html



Vocabulary

Anthropologist – A scientist that studies human cultures.

Archeologist – A scientists that studies ancient human civilizations.

Botanist – A scientists that studies plants.

Geologist – A scientists that studies rocks and minerals.

Paleo-biologist – A scientist that studies ancient life forms such as mastodons and dinosaurs.

Paleontologist – A scientist that studies fossils and ancient life.

Scientific careers – Fields of work that relate to science.

Specialist – A person that studies or is knowledgeable about a specific subject.

NYS Learning Standards

- CDOS1: Career Development
- SS1: History of the United States and New York (2,3)
- SS3: Geography (1,2)
- ELA1: Language for Information and Understanding
- ELA4: Language for Social Interaction
- MST1: Analysis, Inquiry, and Design (1,2,3)
- MST2: Information Systems (1)
- MST3: Mathematics (5)
- MST4: The Physical Environment (2,3,4,5)
- MST4: The Living Environment (1,2,3,4,5,6,7)
- MST5: Technology (3)
- MST6: Interconnectedness (1,2,3,5)

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