

How Different Scientists Research the Same Ecosystem

(Adapted from worksheet by Matt King Timberline Junior High)

Name: _____ Period: _____ Date _____

Types of Scientists	What do these Scientists do/study?	Types of Scientists	What do these Scientists do/study?
Chemist		Geologist	
Biochemist		Mineralogist	
Biologist		Seismologist	
Botanist		Volcanologist	
Zoologist		Ecologist	
Mammalogist		Hydrologist	
Entomologist		Meteorologist	
Ornithologist		Ichthyologist	

1. Why is important to have so many different scientist studying an ecosystem?
2. How do these scientists help each other?
3. If you could be any scientists what type of scientist would you be and why?

Ecosystem Study Readings

As a class we will be researching the ecosystem of Yellowstone National Park. Just as different scientists

study the same ecosystem according to their specialized field, your group will be given a specialized field to research. You will need to become an expert on the topic given to you and be able to share this information with your classmates. As a class we will put together a bulletin board displaying the information that each group gathers. Your group will be responsible for coming up with how you want to display your information on the your poster.

Possible Specialties:

Geologist (also includes Seismology, mineralogy, volcanology, topography): Your job will be to research the land formations and create a large map of the area. You will also mark on the map the types of rocks and minerals that are found in the area, as well as any volcanic activity or earthquake activity.

Zoologists: Your jobs will be to study the animal life in the area.

Ornithologist: Find out what birds live or visit this area. Give a brief description of each bird. What does each bird look like? Where does each bird nest? What does each bird eat? What are the predators of each bird? How does the climate/environment affect each bird? Include any other interesting information on each bird.)

Entomologist: Find out what insects can you find in this area. Give a brief description of each insect. (How can you identify each insect? Where does the insect live? What does each insect eat? What are the predators for each insect? How does the climate/environment affect each insect?)

Mammalogist: Find out what mammals live in this area. Give a brief description of each mammal. (How can you identify each mammal? Where does each mammal live? What does each mammal eat? What are the predators of each mammal? How does the climate/environment affect each mammal? Include any other interesting facts.)

Herpetologist: Find out about the reptiles and amphibians you can find in this area. Give a brief description of each reptile and amphibian. (How can you identify each reptile or amphibian? What does each reptile or amphibian eat? What predators does each reptile or amphibian have? How does the climate/environment affect each reptile or amphibian? Include any other interesting facts.)

Ichthyologist: Find out about the fish you can find in this area. Give a brief description of each fish. (How can you identify each fish? What does each fish eat? What predators does each fish have? How does the climate/environment affect each fish? Include any other interesting facts.)

Botanist: Find out what plants can survive in this area? Give a brief description of each plant. (How can you identify each plant? Where are the best places to find each plant? What types of environment does each plant grow best? How does the climate/environment affect each plant? What predators does each plant have? Include any other interesting facts.)

Meteorologist: Find out what is the climate is like in this area? (Seasons, temperatures, humidity, How does the climate effect what organism can live in this area?)