

Zoology Power Standards by Quarter (6/8/09)

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Goal 1 Inquiry	1. Conduct controlled experiments and simulations.	1. Collect and organize data, accurately and precisely.	1. Interpret, analyze and draw conclusions from the results of a scientific investigation	1. Using available technology, report and display conclusions drawn from investigations.
Goal 2 Content	<p>Unit 1: Zoological Organization 1. Compare and contrast organisms of various taxonomic categories.</p> <p>Unit 2: Protozoa 2. identify the structure and function of Protozoa and their relationship to humans and the world.</p> <p>Unit 3: Porifera 3. Identify the structure and function of Porifera and the roles sponges have in the environment.</p> <p>Unit 4: Cnidaria 4. Analyze the structure and function of Porifera and the roles sponges have in the environment.</p>	<p>Unit 5: Platyhelminthes 1. Compare and contrast Platyhelminthes life cycles and their relationship to humans.</p> <p>Unit 6: Nematoday (Aschelminths) 2. Distinguish between the beneficial and detrimental effects of Nematodes and their effect on the environment.</p> <p>Unit 7: Mollusca 3. Describe the structure and function of Mollusks and their interactions with humans and the environment.</p> <p>Unit 8: Annelida 4. Describe the structure and function of Anelids and their interaction with humans and the environment, including soil fertility and medicinal uses.</p>	<p>Unit 9: Arthropoda 1. Identify the structure and function of Arthropods and their beneficial and detrimental effects on humans and the environment.</p> <p>Unit 10: Echinodermata 2. Compare and contrast various groups of Echinoderms and their beneficial and detrimental effects on humans and the environment.</p> <p>Unit 11: Chordata 1. Describe the significance of chordate evolution.</p>	<p>Unit 12: Subphylum Vertebrata: Classes Chondrichthyes and Osteichthyes 2. Describe unique characteristics of fish and how they interact with humans and the environment</p> <p>Unit 13: Subphylum Vertebrata, Class Amphibia 3. Explain the interactions between amphibians and humans and their effects on the environment.</p> <p>Unit 14: Subphylum Vertebrata, Class Reptilia 4. Explain the interactions between reptiles and humans and their effect on the environment.</p> <p>Unit 15: Subphylum Vertebrata, Class Aves 5. Describe unique characteristics of birds and how they interact with humans and the environment</p> <p>Unit 16: Subphylum Vertebrata, Class Mammalia 6. Compare and contrast unique characteristics of various orders of mammals and how they interact with humans and the environment.</p>
Goal 3 Connections	1. Demonstrate lab safety procedures and accepted practices of science	1. Demonstrate proper dissection techniques with specimen from representative phylums.	1. Explain how scientific research and discoveries about animals is being used to enhance life for both people and animals	1. Examine the use of animals in research from an ethical perspective.