

INQUIRY

Scientific Inquiry

Process Skills

- ___ Conduct controlled experiments or simulations to test hypotheses. **Zoo-01**
- ___ Collect and organize data accurately and precisely. **Zoo-02**
- ___ Interpret, analyze and draw conclusions from the results of a scientific investigation. **Zoo-03**
- ___ Using available technology, report and display conclusions drawn from investigations. **Zoo-04**

CONTENT

Life Science

Zoological Organization

- ___ Compare and contrast organisms of various taxonomic categories. **Zoo-05**

Protozoa

- ___ Identify the structure and function of Protozoa and their relationship to humans and the world. **Zoo-06**

Porifera

- ___ Identify the structure and function of Porifera and the roles sponges have in the environment. **Zoo-07**

Cnidaria

- ___ Analyze cause and effect relationships and interactions of Cnidaria in various environments. **Zoo-08**

Platyhelminthes

- ___ Compare and contrast Platyhelminthes life cycles and their relationship to humans. **Zoo-09**

Nematoda

- ___ Distinguish between the beneficial and detrimental effects of Nematodes and their effect on the environment. **Zoo-10**

Mollusca

- ___ Describe the structure and function of mollusks and their interactions with humans and the environment. **Zoo-11**

Annelida

- ___ Describe the structure and function of Annelids and their interaction with humans and the environment, including soil fertility and medicinal uses. **Zoo-12**

Arthropoda

- ___ Identify the structure and function of Arthropods and their beneficial and detrimental effects on humans and the environment. **Zoo-13**

Echinodermata

- ___ Compare and contrast various groups of Echinoderms and their beneficial and detrimental effects on humans and the environment. **Zoo-14**

Chordata

- ___ Describe the significance of chordate evolution. **Zoo-15**

Subphylum Vertebrata, Classes- Chondrichthyes, Osteichthyes and Agnatha

- ___ Discuss unique characteristics of fish and how they fish interact with humans and the environment. **Zoo-16**

Subphylum Vertebrata, Class- Amphibia

- ___ Explain the interactions between amphibians and humans and their effects on the environment. **Zoo-17**

Subphylum Vertebrata, Class Reptilia

- ___ Explain the interactions between reptiles and humans and their effect on the environment. **Zoo-18**

Subphylum Vertebrata, Class- Aves

- ___ Describe unique characteristics of birds and how they interact with humans and the environment. **Zoo-19**

Subphylum Vertebrata, Class- Mammalia

- ___ Compare and contrast unique characteristics of various orders of mammals and how they interact with humans and the environment. **Zoo-20**

CONNECTIONS

Science Practices

- ___ Demonstrate safe lab procedures and accepted practices of science. **Zoo-21**
- ___ Explain how scientific research and discoveries about animals is being used to enhance life for both people and animals. **Zoo-23**
- ___ Demonstrate proper dissection techniques with specimen from representative phylums. **Zoo-24**

S/T/S (Science, Technology and Society)

- ___ Examine the use of animals in research from an ethical perspective. **Zoo-24**