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Classifying Animals Webquest



Objective: 3.7.A.1. Compile evidence to verify the claim of biologists that the features of organisms connect or differentiate them—these include external and internal structures (features) and processes.

Animals are sorted into groups according to shared similarities. These similarities can be external structures (i.e. limbs) as well as similarities in internal structures (i.e. lungs) and processes (i.e. respiration). The more similarities between organisms, the more related they are. Before you begin, let's define some of the terms that you will be using in the lab today.

1. Circulatory System: Explain what each type of circulatory system is.

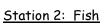
Open Circulatory System:

| b. Closed Circulatory System: | | |
|--|--|--|
| <u>ctions</u> : Use the links to find information about each group of organisms. Record what yon in the appropriate boxes. | | |
| n 1: Mammals | | |
| Circulatory System: | | |
| Open or Closed? | | |
| Type of Reproduction | | |
| Respiration (Way of obtaining Oxygen) | | |
| Digestion | | |



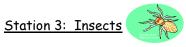


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| Circulatory System: Open or Closed? | |
|--|--|
| Type of Reproduction | |
| Respiration (Way of obtaining Oxygen) | |
| Digestion | |



| Circulatory System: Open or Closed? | |
|--|--|
| Type of Reproduction | |
| Respiration (Way of obtaining Oxygen) | |
| Digestion | |





| Name: | Date: | Period: 2 3 5 6 7 |
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| Station 4: Segmented Worms | | |
| Circulatory System: Open or Closed? | | |
| Type of Reproduction | | |
| Respiration (Way of obtaining Oxygen) | | |
| Digestion | | |
| Summary Questions: 1. How can knowing external an | nd internal structures of an | animal help to classify it? |
| Scientists classify animals in backbones. The other group animals are invertebrates! | to two large groups. One gr is made up of animals witho | other four kingdoms combined. roup is made up of animals with out backbones. More than 95% of |
| Vertebrate: animals with bac | ckbones Invertebrate: c | animals without backbones |
| Vertebrates have an endoske invertebrates have an exoske | | |
| Which of the four animal gro | oups are <i>vertebrates</i> ? | |
| Which of them are <i>invertebr</i> | • | |

Bonus: What is the function of the endoskeletion and exoskeleton?