

Name: \_\_\_\_\_

Test Date: 12/12/17

## **Classification of Plants and Animals Study Guide**

**Section One: Complete the chart by defining each term.**

Vertebrate	A group of animals with a backbone
Invertebrate	A group of animals without a backbone
Vascular	A plant with tissues that carry water and nutrients throughout the plant - true roots, stems, and leaves
Nonvascular	A plant that transports water and nutrients from cell to cell - no true roots, stems, and leaves
Kingdom	Largest classification group for classifying living organisms
Species	Smallest classification group for classifying living organisms
Classification	Process by which scientists classify living organisms
Biologist	A scientist who studies life or living organisms

**2. Which type of animal kingdom is more complex vertebrate or invertebrate?** Invertebrate

**3. Label each of the following as vascular (V) or nonvascular (NV).**

a. A rose bush \_\_\_\_V\_\_\_\_

b. Fern \_\_\_\_NV\_\_\_\_

c. grass \_\_\_\_V\_\_\_\_

d. Spanish moss \_\_\_\_NV\_\_\_\_

**4. Label each of the following as a plant (P) or not a plant (NP).**

a. Fungi \_\_\_\_NP\_\_\_\_

b. mushroom \_\_\_\_NP\_\_\_\_

c. sunflower \_\_\_\_P\_\_\_\_

d. moss \_\_\_\_P\_\_\_\_

**5. Label each of the following as vertebrate (V) or invertebrate (IN).**

a. squid \_\_\_\_IN\_\_\_\_

b. eagle \_\_\_\_V\_\_\_\_

c. snake \_\_\_\_V\_\_\_\_

d. insect \_\_\_\_IN\_\_\_\_

e. clam \_\_\_\_NV\_\_\_\_

f. fish \_\_\_\_V\_\_\_\_

g. seal \_\_\_\_V\_\_\_\_

h. arachnid \_\_\_\_NV\_\_\_\_

i. whale \_\_\_\_V\_\_\_\_

**6. Classes of Vertebrates – You will need to be able to explain how different species are different from one another based on characteristics.**

<b>Type</b>	<b>Characteristics</b>	<b>Examples</b>
<b>Mammals</b>	<ul style="list-style-type: none"> <li>-warm blooded</li> <li>-breathe air with lungs</li> <li>- produce milk for their young</li> <li>- most have fur or hair</li> </ul>	<ul style="list-style-type: none"> <li>-wolves</li> <li>-dogs</li> <li>-elephant</li> <li>-dolphins</li> <li>-whales</li> <li>-bears</li> </ul>
<b>Fish</b>	<ul style="list-style-type: none"> <li>-cold blooded</li> <li>-use gills to breathe</li> <li>-have fins or scales</li> </ul>	<ul style="list-style-type: none"> <li>-salmon</li> <li>-catfish</li> <li>-sharks</li> <li>-tuna</li> <li>-trout</li> </ul>
<b>Birds</b>	<ul style="list-style-type: none"> <li>-warm blooded</li> <li>-breathe air with lungs</li> <li>-feathers, wings, toothless</li> </ul>	<ul style="list-style-type: none"> <li>-parrots</li> <li>-eagles</li> <li>-penguins</li> <li>-hawks</li> <li>-turkeys</li> </ul>
<b>Amphibians</b>	<ul style="list-style-type: none"> <li>-cold blooded</li> <li>-lives part of their lives in water</li> <li>-smooth, moist skin</li> </ul>	<ul style="list-style-type: none"> <li>-frogs</li> <li>-tadpoles</li> <li>-toad</li> <li>-salamander</li> </ul>
<b>Reptiles</b>	<ul style="list-style-type: none"> <li>-cold blooded</li> <li>-breathes air with lungs</li> <li>-body covered in dry scales</li> </ul>	<ul style="list-style-type: none"> <li>-snakes</li> <li>-lizards</li> <li>-turtles</li> <li>-crocodiles</li> <li>-alligators</li> </ul>