

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.

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