

Name: _____

Test Date: 10/18/19

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 ___IN___

f. fish ___V___

g. seal ___V___

h. arachnid ___IN___

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

Carl's Linnaeus's Scientific Classification system has seven levels.

Kingdom

Phylum

Class

Order

Family

Genus

Species

You need to know the order from the top down. These sentences may help you remember the order .

King Phillip came over for great spaghetti!

King Phillip, come out, for goodness' sake!

King penguins congregate on frozen ground sometimes.

Keep ponds clean or frogs get sick.