## Biological Classification

	Diological Glassification
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Who	is taxonomy?
******	13 Taxonomy.
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	The science of (i.e. plants, animals, protists, fungi and
	nonerans)
•	Fends to be guided by relationships.
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1 47 (	Important Features of Biological Classification
	Classification systems assign a to each organism.
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	Organisms are placed into groups that have
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Clas	fication Groups
	Arranged in order from LARGEST (or most diverse) to SMALLEST (or least diverse):
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Mon	ory Trick:
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_	The following is a mnemonic to remember the classification system (in order):

## Information About Each Classification Group

Classification Group	<u>Definition</u>	<u>Example</u>
<u>Kingdom</u>	<ul> <li>group of closely related phyla</li> <li>6 kingdoms:</li> </ul>	Kingdom Animalia
<u>Phylum</u>	<ul> <li>group of closely related</li> <li>include a large number of very different organisms that share</li> </ul>	Phylum Chordata
<u>Class</u>	group of closely related orders	Class Mammalia

<u>Classification</u> <u>Group</u>	<u>Definition</u>	<u>Example</u>
<u>Order</u>	• group of	<u>Order Carnivora</u>
<u>Family</u>	• group of	Family Felidae
<u>Genus</u>	<ul><li>group of</li><li>have many</li></ul>	<u>Genus <i>Felis</i></u>
<u>Species</u>	• population of organisms that share and can	Species domesticus (common housecat)

## The Naming System

•	developed by	/	in the	eighteenth	century

system is known as \_\_\_\_\_

## Binomial Nomenclature

• each organism is given a two-part name:

first part is the name
second part is the name
• format of the two-part scientific name:
capitalize the name
DO NOT capitalize the name
BOTH names must be <i>italicized</i> (when typed) or (when printed
Questions for Discussion
• A group of individuals that interbreeds and passes on characteristics is called a(n)
2. A species is sometimes referred to as a natural unit of classification. Why do you suppose it is called a natural unit of classification? Defend your answer.
<ul> <li>Questions for Discussion</li> <li>3. If two organisms are in the same family, what are the other levels of organization that they have in common?</li> </ul>
Questions for Discussion  4. The scientific name for a daffodil is:
Plantae Anthophyta Monocotyledonae Liliales Amarlideceae <i>Narcissus pseudonarcissus</i>
(a) What is the scientific binomial name for the daffodil?\
(b) What is the family name of the daffodil?
(c) What is the phylum?