Name:	Per:

HIERARCHY OF CLASSIFICATION

Use **12.1 – 12.3 (Classification chapter)** of text to learn about classification and complete this concept development: Define **TAXONOMY**:

Fill in the 7 Taxonomic Levels.

Taxonomic Level	Woodchuck	Grizzly Bear	Raccoon	Squirrel	Panda Bear	Marmot
1.	Animalia	Animalia	Animalia	Animalia	Animalia	Animalia
2.	Chordata	Chordata	Chordata	Chordata	Chordata	Chordata
3.	Mammalia	Mammalia	Mammalia	Mammalia	Mammalia	Mammalia
4.	Rodentia	Carnivora	Carnivora	Rodentia	Carnivora	Rodentia
5.	Sciuridae	Ursidae	Procyonidae	Sciuridae	Procyonidae	Sciuridae
6.	Marmota	ursus	Procyon	Scirus	Ailurus	Marmota
7.	monax	horriblis	lotor	carolinensis	fulgens	caligata

- 1. Which two organisms are most closely related? EXPLAIN WHY you think this!
- 2. Which organism is most closely related to the panda bear? EXPLAIN!
- 3. What is wrong with taxonomic level 6 of the grizzly bear?
- 4. Which organism is more closely related to the squirrel and woodchuck than to the other three animals? EXPLAIN!
- 5. What is the most specific taxonomic level at which all six animals are related?
- 6. Using binomial nomenclature (sec. 17.1), write the proper scientific name of the grizzly bear.
- 7. If two organisms belong to the same genus, must they always belong to the same order? EXPLAIN!
- 8. If two organisms belong to the same class, must they always belong to the same family? EXPLAIN!
- 9. What is the most specific taxonomic level at which a man and a squirrel would be classified together?
- 10. Consider the statement: "Size and shape are NOT reliable indicators of the degree of relatedness." What information in the table above supports this statement?