

PART 2 – TAXONOMIC RELATIONSHIPS - Use this chart to answer questions 1-6 on the back.

	House Cat	Red Fox	Dog	Wolf	Gopher	Fly
Kingdom	Animalia	Animalia	Animalia	Animalia	Animalia	Animalia
Phylum	Chordata	Chordata	Chordata	Chordata	Chordata	Arthropoda
Class	Mammalia	Mammalia	Mammalia	Mammalia	Mammalia	Insecta
Order	Carnivora	Carnivora	Carnivora	Carnivora	Rodentia	Diptera
Family	Felidae	Canidae	Canidae	Canidae	Geomyidae	Muscidae
Genus	<i>Felis</i>	<i>Vulpes</i>	<i>Canis</i>	<i>Canis</i>	<i>Thomomys</i>	<i>Musca</i>
Species	<i>domesticus</i>	<i>fulva</i>	<i>familiaris</i>	<i>lupus</i>	<i>bottae</i>	<i>domestica</i>

1. Which two animals are most closely related? Explain.
2. How do you know a dog is more closely related to a red fox than a house cat?
3. Which taxon would have more species, an order or a family?
4. Which taxon includes only organisms that can successfully interbreed?
5. If two organisms belong to the same family, what other taxonomic groups do the organisms have in common?
6. Use the chart to determine what kind of animal a *Vulpes velox* is.