Organizing Life's Diversity Section 3 Domains and Kingdoms

Main Idea	Details		
	Scan Section 3 of the chapter. Use the checklist as a guide.		
	Read all section titles.		
	Read all boldfaced words.		
	Read all tables and graphs.		
	Look at all pictures and read the captions.		
	Think about what you already know about groups of organisms.		
	Write three facts you discovered as you scanned the section.		
	1. Accept all reasonable responses.		
	2		
	3		
Review Vocabulary	Use your book or dictionary to define eukaryote.		
eukaryote	an organism composed of one or more cells containing a nucleus		
	and membrane-bound organelles		
New- Vocabulary	Use your book or dictionary to define each term.		
Bacteria	a domain and kingdom of prokaryotes whose cell walls		
	contain peptidoglycan		
Archaea	a domain and kingdom of prokaryotes whose cell walls do not		
	contain peptidoglycan; sometimes called extremophiles		
protists	eukaryotic; unicellular, colonial, or multicellular; subclassified as		
	plantlike, funguslike, and animal-like		
fungus	eukaryotic; unicellular or multicellular; absorb nutrients from		
	organic materials; have cell walls that contain chitin		

Date ____

Section 3 Domains and Kingdoms (continued)

(Main Idea) **Grouping Species Rephrase** why the members formerly in the Kingdom Monera were separated into the domains Bacteria and Archaea. I found this information Biochemical studies showed that bacteria and archaea are as different on page _ SE, p. 499 from each other as they are from eukaryotes, so they were placed in RE, p. 208 separate domains. **Domain Bacteria Model** the cell walls of bacteria. Label the features of bacteria. Accept all reasonable drawings. I found this information on page _ SE, pp. 499–500 RE, pp. 208–209

Domain Archaea

I found this information on page _ SE, p. 500 RE, p. 209

Analyze why archaea are sometimes called extremophiles.

Archaea are called extremophiles because they live in some

of the most extreme environments on Earth, including hot springs,

salty lakes, thermal vents, and mud.

Section 3 Domains and Kingdoms (continued)

(Main Idea).

(Details

Domain Eukarya

I found this information on page _____. SE, pp. 501–503 RE, pp. 209–212 **Organize** the kingdoms in the Domain Eukarya and describe their cell structure. List each kingdom's sources of energy and other important characteristics.

Kingdom	Cell Structure	Energy Sources	Other Characteristics
Protista	unicellular or multicellular	autotrophs, heterotrophs	no organs
Fungi	unicellular or multicellular	heterotrophs	stationary
Plantae	have cell walls	autotrophs	stationary
Animalia	no cell walls	heterotrophs	most able to move

SUMMARIZE

Model a diagram of the relationship between domains and kingdoms. Accept all reasonable responses.