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Read	ling Guide: Chapter 1.2, Themes and (Concepts of Biology (OpenStax Biology 2E)
1. Fr	om the beginning biology has wrestled w	ith three questions:	
	What	make something alive?	
	How do we find meaningful levels of _	in its structure?	,
	How do we	the different kinds of organisms?	
2. O	rganisms are highly	_ , coordinated structures that consist of one or more	·
3. Mo	ovement away or toward light is called		
4. W	nen reproduction occurs,	are passed to the offspring.	
A	e two parents necessary for reproduction	ı?	
5. G	enes provide instructions for organisms' g	growth and	
6. R	egulation refers to mechanisms that:		22233
		internal functions	
		to stimuli	
	cope with environmental		
8. All	organisms require	for their metabolic processes.	
9. W	hat is the smallest and most fundamenta	I unit of matter?	
10. \	What is a macromolecule?		
	What is an example of a macromolect	ule?	
11. \	Vhat is the difference between a prokary	ote and a eukaryote?	
12. (Cells combine to make	which combine to make	
13. <i>A</i>	All the individuals of a species living in an	area is a	
14. T	he source of the diversity of life is		
15. \	What is a phylogenetic tree?		
Evol	ution Connection: Carl Woese and the	e Phylogenetic Tree	
16. T	he organization of organisms into the five	e kingdoms was based on	
17. C	arl Woese proposed that life on earth eve	olved along three lineages, or domains. What are the	∍y?
18. \	What organisms belong to the domain Eu	karya?	_
19. \	Why was Woese's approach revolutionary		
20. E	Briefly describe what each of the branche	s of science study:	
Ν	licrobiology	Forensic Scientist	
Ν	leurobiology (neuroscience)	Paleontology	
Z	oology	Botany	