

Biology Unit 1 Scientific Method & Characteristics of Life

Quizlet

Vocabulary Review

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1. adaptation	inherited characteristics of an organism that aids in survival and can change over time	24. science	a body of knowledge based on study of nature
2. Biology	science of life; examines how living things interact, how systems function and how they function at molecular level	25. scientific method	series of problem solving procedures: observations, hypothesis, experiment, gather/analyze data, & conclusions
3. constant/control	remains same during experiment, while the independent variable is changed	26. SI	system of measurements used by scientists abbreviation of international system of units
4. control group	group not receiving factor being tested in controlled experiment	27. species	group of organisms that can interbreed and produce offspring
5. data	quantitative/qualitative info gained from scientific investigation/experiment	28. stimulus	internal/external change in environment; causes reaction
6. dependent variable	what is measured in an experiment (plotted on y-axis)	29. theory	explanation that is supported over time
7. development	changes before adulthood		
8. ethics	set of values		
9. experiment	used to test a hypothesis & and collect data		
10. experimental group	controlled experiment, group receiving factor being tested		
11. growth	new cells and structures formed; increase in mass		
12. homeostasis	organisms maintenance of internal conditions (regulation) over time		
13. hypothesis	testable explanation		
14. independent variable	what is changed in an experiment (plotted on x-axis)		
15. inference	assumption based on prior experience		
16. law	fact of nature that describes relationship under certain conditions in nature		
17. metric system	measurement system whose divisions are powers of ten		
18. observation	orderly, direct information gathered about a natural phenomenon		
19. organism	anything that has/once had all characteristics of life		
20. organization	orderly structure (how organisms are put together/built)		
21. peer review	procedures used during experiment may be repeated and the results are evaluated by scientists in same field/ similar research		
22. reproduction	production of offspring		
23. response	organisms reaction to stimulus		