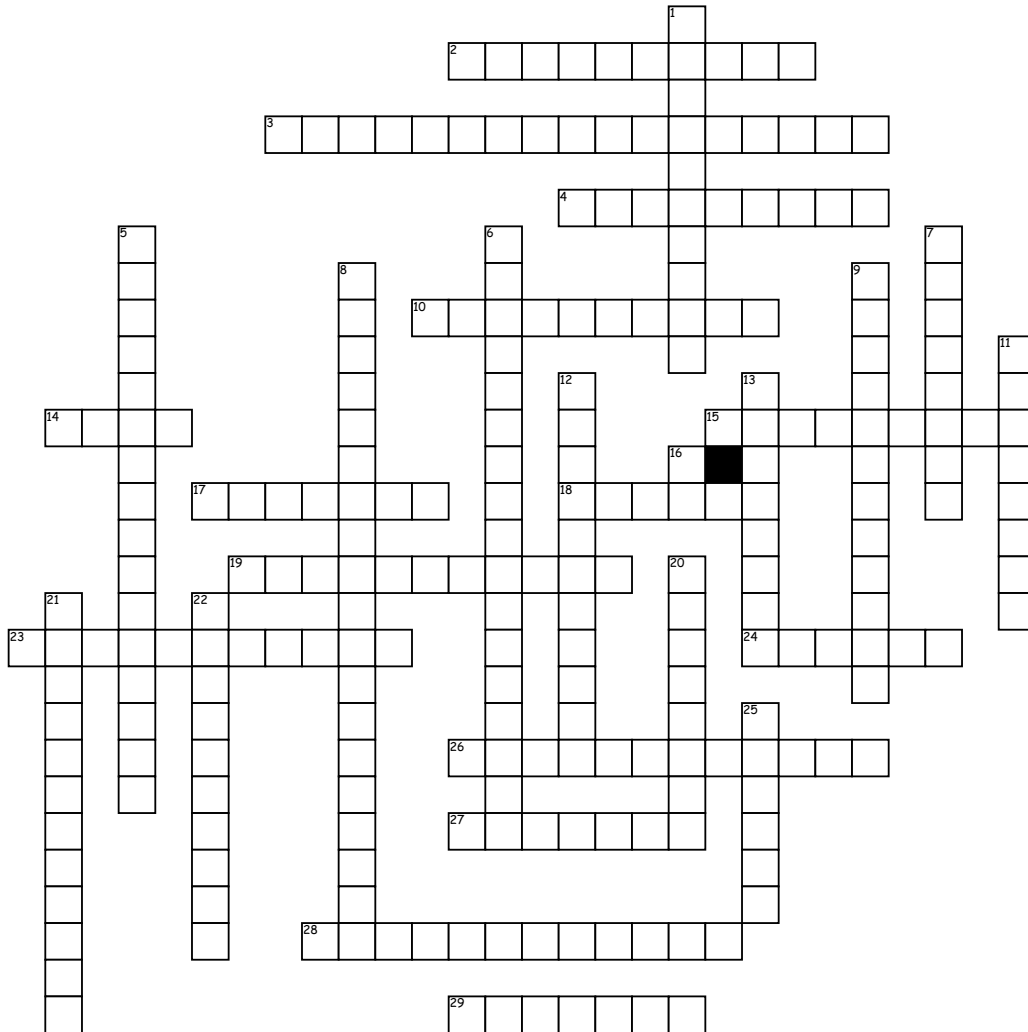


Name: _____

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Chapter 1



Across

2. testable explanation of a situation
3. factor being measured in a controlled experiment; its value changes because of changes to the independent variable
4. assumption based on prior experience
10. procedure performed in a controlled setting to test a hypothesis and collect precise data
14. quantitative or qualitative information gained from scientific investigation
15. the field of study that applies science to matters of legal interest and other areas such as archaeology
17. a body of knowledge based on the study of nature
18. a set of values
19. orderly, direct information gathering about a natural phenomenon
23. occurrence of accidental or unexpected but fortunate outcomes

24. explanation of a natural phenomenon based on many observations and investigation over time
26. in a controlled experiment, the group not receiving the factor being tested
27. group of organisms that can interbreed and produce fertile offspring
28. measurement system whose divisions are powers of ten
29. study of life

Down

1. a process in which the procedure used during an experiment may be repeated and the results are evaluated by scientists who are in the same field or are conducting similar research
5. a series of problem-solving procedures that might include observations, forming a hypothesis, experimenting, gathering and analyzing data, and drawing conclusions
6. in a controlled experiment, the group receiving the factor being tested
7. anything that or once had all the characteristics of life

8. the one factor that can be changed in a controlled experiment; is the factor tested and affects the experiment outcome
9. orderly structure shown by living things
11. organism's reaction to a stimulus
12. changes an organism undergoes in its lifetime before reaching its adult form
13. a factor that remains fixed during an experiment while the independent and dependent variable change
16. system of measurement used by scientists; abbreviation of the International System of Units
20. any change in an organism's internal or external environment that causes the organism to react
21. production of offspring
22. inherited characteristic of a species that develops over time in response to an environmental factor, enabling the species to survive
25. process that results in mass being added to an organism; may include formation of new cells and new structures

Word Bank

serendipity	theory	development	growth	ethics
adaptation	inference	species	forensics	observation
dependent variable	reproduction	SI	organization	peer review
data	experimental group	biology	science	constant
response	experiment	metric system	organism	scientific method
hypothesis	stimulus	control group	independent variable	