

Chapter 2 (Environmental Science) Study Guide

1. What is the control group?
2. What are correlations?
3. What is the mean?
4. What step of the scientific method are scientists conducting when photographing birds?
5. What are two characteristics that make an experiment good?
6. What is an example of a graphical model?
7. Which scientific habit of mind allows scientists to expand the boundaries of what we know?
8. Which scientific habit of mind is the ability to conceive of new ideas?
9. What is the dependent variable?
10. What is the independent variable?
11. What is probability?
12. What is a sample?
13. What is a mathematical model?
14. What is a correlation?
15. What is a risk?
16. What is a decision-making model?
17. What is the scientific method?
18. What is a bar graph?
19. What is an experiment?

20. What scientific habit of mind is when a scientist does not believe everything they are told?
21. What is a statistical population?
22. How do we collect information during the observation process?
23. What is a theory?

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| a. control group | f. value |
| b. prediction | g. experiment |
| c. physical model | h. statistics |
| d. risk | i. data |
| e. conceptual model | |

- ___ 25. a logical statement about what will happen in an experiment
- ___ 26. a verbal or graphical explanation for how a system works or how it is organized
- ___ 27. in an experiment, that which does not receive the experimental treatment
- ___ 28. a three-dimensional model you can touch
- ___ 29. principles or standards considered to be important
- ___ 30. the probability of an unwanted outcome
- ___ 31. information gathered during an experiment
- ___ 32. procedure designed to test a hypothesis
- ___ 33. collection and classification of data

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|----------------|---------------|
| a. observation | d. experiment |
| b. hypothesis | e. data |
| c. prediction | |

- ___ 34. logical statement about what will happen
- ___ 35. information gathered in an experiment
- ___ 36. testable explanation for an observation
- ___ 37. procedure used to test a hypothesis
- ___ 38. information gathered by using the senses

