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Open

Name _____ Date _____

11. The variable that is observed during an experiment is called what type of variable?
- independent
 - manipulated
 - controlling
 - dependent
12. Which of these steps should always be followed for effective problem solving?
- trying a large quantity of material than estimated
 - performing metric conversions
 - developing a plan and then implementing the plan
 - using a trial-and-error approach and then evaluating
13. The way that usually occurs last in solving numeric problems is _____.
- calculate
 - measure
 - evaluate
 - analyze
14. How do non-numeric problems differ from numeric problems?
- Solutions to conceptual problems involve analysis, while numeric solutions do not.
 - Logic is not usually involved in solving numeric problems.
 - A plan is necessary to solve numeric problems, but is not necessary for conceptual problems.
 - Solutions to conceptual problems usually do not involve calculations.

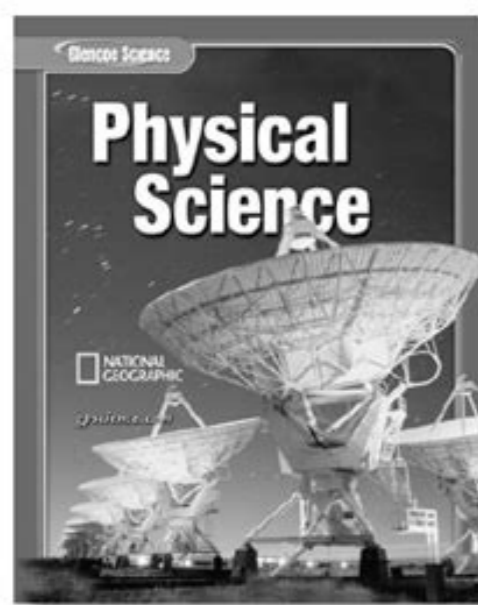
Open ended

15. What are the steps involved in solving numeric problems?
- _____
- _____
16. Name five areas of chemistry and give examples of the types of problems chemists are trying to address within each area.
- _____
- _____
- _____
17. Explain how a hypothesis, a theory, and a scientific law are related.
- _____
- _____
- _____
18. Use an example from your own experience to explain how collaboration can be valuable to the successful outcome of a project.
- _____
- _____
- _____
19. List and describe the two steps for solving non-numeric problems.

Study Guide and Reinforcement

Answer Key

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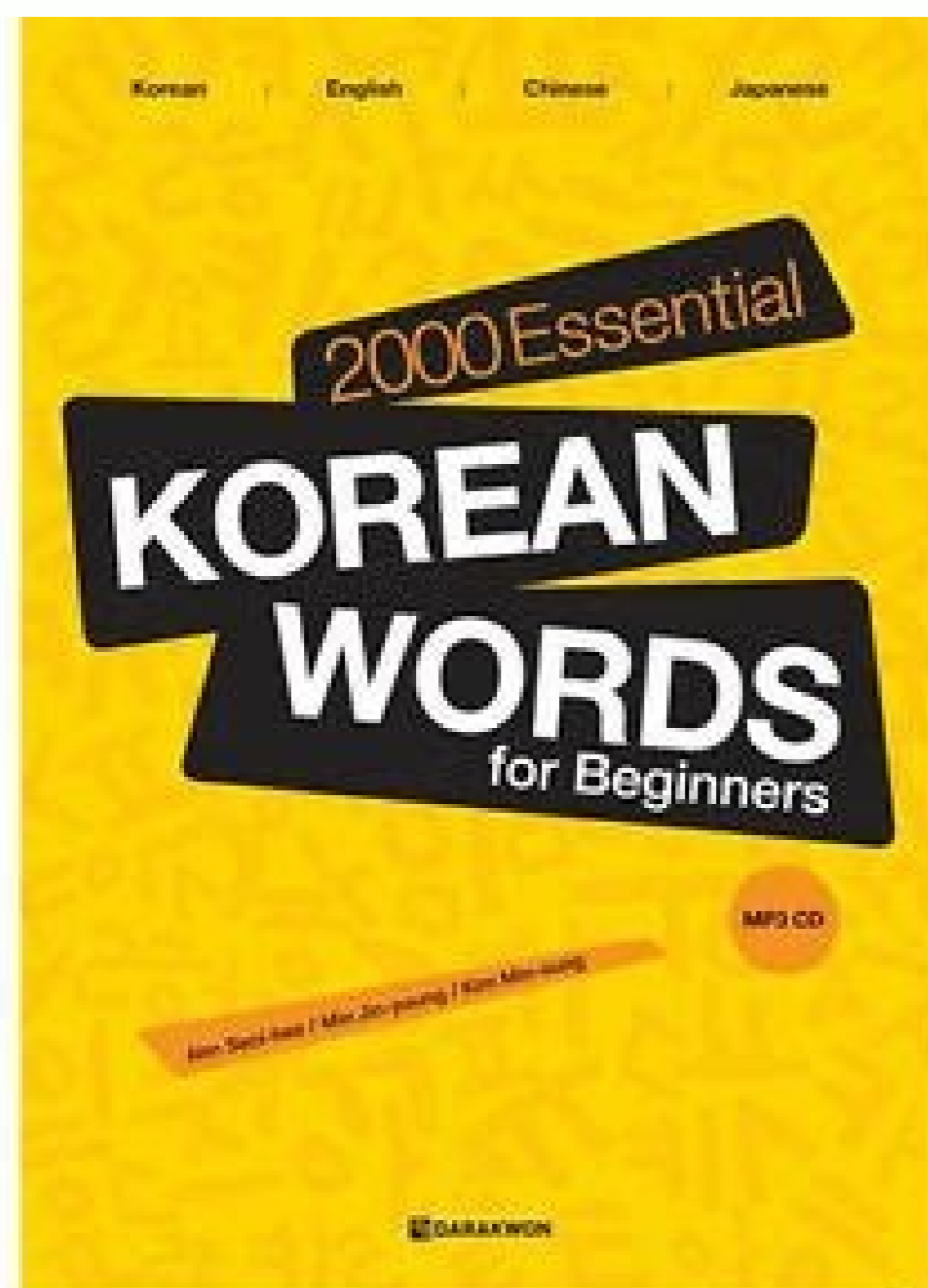


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CHAPTER CHAPTER ANSWERS

- CHAPTER 1
1. The scientific method is a process of inquiry that involves making observations, asking questions, forming a hypothesis, testing the hypothesis, and drawing conclusions.
 2. A hypothesis is a statement that can be tested by an experiment.
 3. A theory is a well-substantiated explanation of some aspect of the natural world, based on a body of facts that have been repeatedly confirmed through observation and experiment.
 4. A scientific law is a statement that describes a consistent and universal phenomenon.
 5. A model is a representation of an object or system that is used to study its properties and behavior.
 6. A diagram is a visual representation of an object or system that is used to study its properties and behavior.
 7. A graph is a visual representation of data that is used to study its properties and behavior.
 8. A table is a visual representation of data that is used to study its properties and behavior.
 9. A chart is a visual representation of data that is used to study its properties and behavior.
 10. A map is a visual representation of data that is used to study its properties and behavior.



AmazingSean

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