

**Unit 1 Study Guide --- ANSWER KEY**

- Define scientific method: a procedure for collecting, testing, and communicating information
- Define hypothesis: a suggested answer to the question, an educated guess
- Define experiment: a scientific test to see what will happen
- Define dependent variable: the variable that you do NOT control. (on a graph is usually on the Y axis)
- Define independent variable: the variable that I control. (on a graph is usually on the X axis)
- Define control: the part of the experiment where everything is left the same.
- Define observation: information collected with any of your 5 senses
- Define density: the ratio of mass per unit volume ( $D = m/v$ )
- Define accuracy: the measure of how close your data is to the ACTUAL or true value.
- Define precision: a measure of how close your data (measurements) are to each other.
- Why do scientists use SI units of measurement? So that measurements can be understood internationally (around the world).

- List (in the correct order) the steps of the scientific method.

1. make an observation	4. test hypothesis (experiment)
2. ask a question	5. analyze data/form a conclusion
3. form a hypothesis	6. develop a theory

- What mnemonic device is used to remember the metric system?

**K H Da B d c m**  
**g, m, L**

- What is the sentence (mnemonic) that will help you remember the METRIC prefixes in order?

**King Henry Died By Drinking Chocolate Milk**

- Fill in the table below describing the metric system:

	Kilo	Hecto	Deca	Base	Deci	Centi	Milli
Abbreviation	<b>K</b>	<b>H</b>	<b>Da</b>	<b>g, m, L</b>	<b>d</b>	<b>c</b>	<b>m</b>
Meaning in powers of 10	<b><math>10^3</math></b>	<b><math>10^2</math></b>	<b><math>10^1</math></b>	<b><math>10^0</math></b>	<b><math>10^{-1}</math></b>	<b><math>10^{-2}</math></b>	<b><math>10^{-3}</math></b>

Convert the following:

- 2.5L to 2500 mL
- 2.3 km to 230,000 cm
- 0.045 g to 45 mg
- 0.35 kg to 350 g
- 300 mL to 0.300 L

- 2.5 cm to 0.25 m
- 56784 mm to 0.056784 km
- 15 g to 0.015 kg
- 3.452 kL to 3452 L
- 47 m to 47000 mm

#### Scientific Notation:

Convert the following to scientific notation:

- 0.005  $5 \times 10^{-3}$
- 5,050  $5.05 \times 10^3$
- 0.0008  $8 \times 10^{-4}$
- 1,000  $1 \times 10^3$

- 0.025  $2.5 \times 10^{-2}$
- 0.0025  $2.5 \times 10^{-3}$
- 500  $5 \times 10^2$
- 5,000  $5 \times 10^3$

# Answer Key 9 Study Guide Physics

**JS Bruner**

**Answer Key 9 Study Guide Physics:**

Answer Key 9 Study Guide Physics: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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