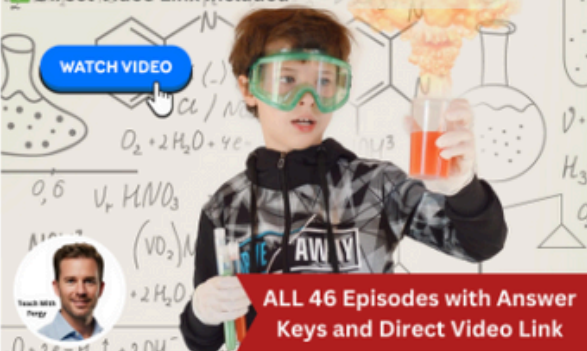


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Crash Course Chemistry #2: Unit Conversion & Significant Figures

Name: _____ Date: _____

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1. The kilogram is defined by a physical object known as the _____.
2. There are only _____ base units in the International System of Units.
3. Force is calculated as _____ multiplied by mass.
4. The unit for power is the _____, which is work divided by time.
5. The second is based on the time it takes for the Earth to _____.
6. The Mars Climate Orbiter crashed due to a mismatch in _____.
7. When converting units, you should make sure unwanted units _____.
8. The distance light travels in a year is called a _____.
9. Units named after people, like hertz and watt, are typically spelled with a _____ letter.
10. Exact numbers are known with _____ precision.
11. Measured numbers always carry an inherent level of _____.
12. The term used for the digits in a number that are known with certainty is _____.
13. Scientific notation makes it easier to understand and preserve _____.
14. When multiplying or dividing, the number of significant figures in the answer must match the measurement with the fewest _____.
15. Including more digits than justified by measurement precision results in _____ data.

Crash Course Chemistry #2: Unit Conversion & Significant Figures KEY

1. The kilogram is defined by a physical object known as the *International Prototype Kilogram*.
2. There are only **seven** base units in the International System of Units.
3. Force is calculated as **acceleration** multiplied by mass.
4. The unit for power is the **watt**, which is work divided by time.
5. The second is based on the time it takes for the Earth to **rotate**.
6. The Mars Climate Orbiter crashed due to a mismatch in **units**.
7. When converting units, you should make sure unwanted units **cancel**.
8. The distance light travels in a year is called a **lightyear**.
9. Units named after people, like hertz and watt, are typically spelled with a **lowercase** letter.
10. Exact numbers are known with **infinite** precision.
11. Measured numbers always carry an inherent level of **uncertainty**.
12. The term used for the digits in a number that are known with certainty is **significant figures**.
13. Scientific notation makes it easier to understand and preserve **significant figures**.
14. When multiplying or dividing, the number of significant figures in the answer must match the measurement with the fewest **significant figures**.
15. Including more digits than justified by measurement precision results in **misleading** data.

15 Questions

Answer Key Included

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