Science 9
Physics Unit

Create Your Own Physics Unit Test

Central to both curiosity and science is the ability to formulate (create) clear and concise questions. Instead of ending with a unit test in which you answer questions, *you* have the exciting task of designing a test!

REMEMBER! This is your opportunity to show what you know! Your questions and answers should demonstrate a complete understanding of the topics from this unit!

Requirements: To complete this assignment, you will hand in following three components:

1. Final version of your unit test that includes:
   a. At least 10 multiple choice questions
   b. At least 5 matching and/or fill in the blank questions
   c. At least 5 short answer questions
   d. At least 1 connecting / application question (see below for ideas)
   e. A complete answer key to all questions

***All questions and answers must be IN YOUR OWN WORDS, and of your own creation.**
Remember that it is easy to copy and paste your questions into Google to check for plagiarism!

2. The draft that underwent peer feedback, as well as the written feedback from your classmate

3. One-page self-assessment and reflection of your learning

You should also focus on QUALITY over quantity…. The ability to communicate a full understanding while still being *concise* is a good skill! Remember, *you* would not want to take a 10 page test!

Short Answer

Short answer questions often require a few sentences to a paragraph to fully answer the question. They are questions that aim to measure understanding of principles and concepts, or the ability to solve problems and apply learned topics. Word the question so that a clear, meaningful problem is presented.

- Compare / contrast questions
- Draw diagrams
- Problems that require calculations to solve
- Multi-step or part questions

Connecting Questions: "Where do I start?"

Do any concepts grab your attention? Explore those interests through further research.
Do you notice any connections between what you're learning now and what you have learned previously in this course (or other classes)?

These questions demonstrate a proficient understanding of the content and your ability to apply your learning to new situations. Some possible question topics include:

- What is lightening and how is it connected to electricity?
- How does plasma act as a conductor?
- What is a Van de Graaff generator and how does it work?
- Early theories / history of electricity
- Different sources of electricity
- Alternative / clean energy sources
- Biological applications of electricity (animals, electrical signals in nerve cells, medical applications, etc…)
- Analogy for electric circuits
- Faraday cages
- Graphing connections to voltage and current
- Superconductors
- Energy consumption (home / school)

Peer Feedback Form

Name of person receiving feedback: Date feedback was given:
Name of person providing feedback: Block:

Tell: ***Something you liked….***

Ask: ***A thoughtful question….***

Give: ***A positive suggestion…***

Any other actionable feedback you would like to share:

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