

Physics 112

Monday, September 10/18

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1. Return:

Assignment - Alphabetical Autobiography

- Due: Frid., Sept. 7/18

- 1 Day Late Today

- See Me by Friday, Sept. 14/18

2. Questions re Last Week's Concepts?

3. Formative Assessment (FA) - Physics to SI System of Units

4. SI Prefixes - Continue

5. Metric Conversions

6. **Worksheet: Conversions and Rearranging Formulas**
HW - Try some conversions.

7. Rearranging Equations

8. Worksheet: Conversions and Rearranging Formulas

9. Extra Practice - Metric Conversion Worksheet #1
Worksheet: Rearranging Sheet

10. **Summative Assessment - Basic Knowledge/Skills**
- Topics
- Date: To Be Determined

Physics 112

Formative Assessment - Physics to SI System of Units

Name: _____

Date: _____

Answer the following on the lines provided.

-
1. Give one example of a derived unit. _____
 2. The science of measurement is called _____.
 3. A measurement has two parts:
 - (i) _____
 - (ii) _____
 4. Three darts are thrown at a target. Assume the thrower was aiming for the center of the target. Describe the accuracy and precision of the results illustrated below.

accuracy - _____precision - _____

5. State the number of significant digits in each measurement.
 - a) 40.5 g _____
 - b) 0.20070 cm _____
 - c) 8.090×10^3 kg _____
6. A physical _____ is a physical property that can be measured.
7. What is the name of the rule used to determine the correct number of significant digits of the product when multiplying measurements? _____
8. _____ is the study of matter and energy and their relationships.
9. The SI system of units is built on _____ base units.
10. The measurement 0.034 cm written in scientific notation is _____.

Topics - SA: Basics Knowledge/Skills

1. physics - definition
2. metrology - definition
3. physical quantity - definition
4. measurements - two parts
5. scientific notation
6. accuracy/precision - definitions, interpret scenario
7. percent error calculation
8. significant digits - in a given measurement
 - Precision (+ and -) & Certainty (x and \div) Rules
9. SI system - quantities and 7 base units (names/symbols)
 - derived units
10. SI prefixes - names, symbols and powers of ten
11. metric conversions - 1 step
 - 2 steps
 - m/s \longleftrightarrow km/h
12. rearranging equations

Physics 122

Monday, September 10/18

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-
1. Check:
Worksheet: Vectors - Perpendicular Components #4-6
 2. FA - Perpendicular Components of a Vector
FA - Adding Vectors Using Perpendicular Components
 3. Reminders: Kinematic Equations
Newton's Second Law
 4. Force Problems Involving Components - Types I, II and III
 5. Type I: Pulling or Pushing An Object - To Be Continued
-
6. Worksheet: Force Problems Type I

11:40

Physics 122

Formative Assessment– Perpendicular Components (FP1.1)

Determine the perpendicular components of a force vector with a magnitude of 29 N and a direction of 47° S of W.

Formative Assessment – Calculating R Using Perpendicular Components (FP1.2)

Determine the resultant of 243 km, 50.0° N of E and 57.0 km, 20.0° S of E.

Science 10

Monday, September 10/18

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1. Return:

Assignment - Autobiographical Poem

- Due: Friday, Sept. 7/18

- 1 Day Late Today

2. Assignment - What's in a Name?

- Due: Wednesday, Sept. 12/18

3. Formative Assessment - Chemistry to Chemical Symbols

4. Chemical Periods and Groups/Families

5. Metals, Nonmetals and Metalloids on the Periodic Table

P4

6. Characteristics of Metals and Nonmetals

7. Atomic Number - To Be Continued

P5

8. Standard Atomic Notation

9. Worksheet: Standard Atomic Notation

10. Bohr-Rutherford Diagrams

11. Worksheet: Bohr-Rutherford Diagrams

Science 10

Formative Assessment – Chemistry to Chemical Symbols

Name - _____ Date - _____

Complete each statement with a word from the box below that makes each statement true.

| | | |
|--------------------|------------------|------------------|
| <u>symbol</u> | <u>electron</u> | <u>subatomic</u> |
| <u>neutron</u> | <u>chemistry</u> | <u>element</u> |
| <u>proton</u> | <u>nucleus</u> | <u>atoms</u> |
| <u>capitalized</u> | <u>matter</u> | |

- a) The first letter of a chemical symbol is always _____.
- b) There are three particles smaller than an atom. They are called _____
particles.
- c) An element is represented by a chemical _____.
- d) A positively charged particle in the nucleus of an atom is called a(n)
_____.
- e) _____ are the building blocks of matter.
- f) _____ is the study of matter.
- g) The center or core of an atom is called its _____.
- h) A(n) _____ is made up of atoms and cannot be chemically broken
down into simpler substances.
- i) A(n) _____ is found in an orbit surrounding the nucleus of an
atom.
- j) The neutral subatomic particle is called a(n) _____.
- k) _____ is anything that takes up space and has mass.

Science 10

Formative Assessment – Chemistry to Chemical Symbols

Name - _____ Date - _____

Complete each statement with a word from the box below that makes each statement true.


| | | |
|--------------------|------------------|------------------|
| <u>symbol</u> | <u>electron</u> | <u>subatomic</u> |
| <u>neutron</u> | <u>chemistry</u> | <u>element</u> |
| <u>proton</u> | <u>nucleus</u> | <u>atoms</u> |
| <u>capitalized</u> | <u>matter</u> | |

- a) The first letter of a chemical symbol is always capitalized.
- b) There are three particles smaller than an atom. They are called subatomic particles.
- c) An element is represented by a chemical symbol.
- d) A positively charged particle in the nucleus of an atom is called a(n) proton.
- e) Atoms are the building blocks of matter.
- f) Chemistry is the study of matter.
- g) The center or core of an atom is called its nucleus.
- h) A(n) element is made up of atoms and cannot be chemically broken down into simpler substances.
- i) A(n) electron is found in an orbit surrounding the nucleus of an atom.
- j) The neutral subatomic particle is called a(n) neutron.
- k) Matter is anything that takes up space and has mass.

FIGURE IT OUT!

#6

Each block represents a saying or well-known phrase.
Please write your answers on the back of the page.

| | | | |
|---|--|---------------------------------------|---|
| <p>1 MORE MORE MORE MORE MORE MORE MORE MORE MORE MORE MORE</p> | <p>2 OPINION OPINION</p> | <p>3 R Y S</p> | <p>4 The DIAL Hospital</p> |
| <p>5 DUMPL F DUMP L I N G</p> | <p>6 BENDING — UOY ROF</p> | <p>7 IRIGHTI</p> | <p>8 (N)</p> |
| <p>9 MAY AA</p> | <p>10 W A W A L L K K</p> | <p>11 STAYINGTHEGAME</p> | <p>12 ROLE ROLE</p> |
| <p>13 AMINPM</p> | <p>14 WEL L </p> | <p>15 LOV</p> | <p>16 PAINS PAINS</p> |
| <p>17 LEFT OUT FIELD</p> | <p>18 1 1 The 1 1 block 1 1 1 1</p> | <p>19 EZ II</p> | <p>20 WAY YIELD</p> |