Physics 112 Friday, February 12/16

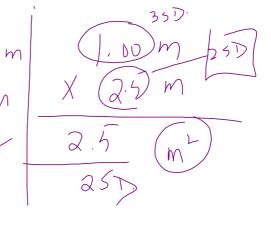
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Wellness Breakfast

- 1. Assignment Metric System -> Due: Today, February 12/16
- 2. Quiz Basic Skills -> Tuesday, Feb. 16/16
- 3. Check -> Worksheet Conversions and Rearranging Formulas
- 4. Physics Lab Experiment 2.1: Measuring Length

Quiz: Basics Skills-Topics

- 1. definition of physics
- 2. SI system quantities and 7 base units (names/symbols) derived units (m/s, N*)
- 3. SI prefixes names, symbols and powers of ten
- 4. Significant Digits in a given measurement
 apply precision (+ and -) and
 certainty (x and ÷) rules
- 5. metric conversions ()
- 6. rearranging equations
- 7. accuracy/precision



Science 122 Friday, February 12/16

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- 1. Quiz Complex Circuit: Monday, Feb. 15/16
- 2. Sample Problem Complex Circuit Tuesday, Feb. 16/16 $\frac{1}{7}$ 10
- 3. Topic 2 Magnetism
- 4. Electric Charge vs Magnetic Poles
- 5. Lodestones and Ferromagnetic Materials
- 6. Magnetic Domains
- 7. Magnetic Field Lines

Science 10 Friday, February 12/16



- 1. Assignment Autobiographical Poem 4 Days Late
- 3. Assignment Your Name in Chemical Symbols Due: Today, Feb. 12/16
- 4. Check -> Worksheet #2 Simple Binary Ionic Compounds
- 5. Quiz Matter to Simple Binary Ionic Compounds Tuesday, Feb. 16/16
- 6. Polyatomic Ions
- 7. Ionic Compounds Containing Polyatomic Ions
- 8. Worksheet #3 Ionic Compounds Containing Polyatomic Ions HW

Science 10

Quiz - Matter to Simple Binary Ionic Compounds

Topics:

- 1. matter -> has mass and takes up space
- 2. physical properties -> observed with senses
 - -> color, texture, odor, taste, lustre, malleability, ductility, brittleness, solubility, state of matter (solid, liquid, gas)
- 3. chemical properties -> ability/inability to undergo a change that alters its composition like corrosion, tarnishing, rusting, exploding
- 4. distinguish between physical and chemical changes
- 5. evidence that a chemical reaction has occurred
 - color change
 - formation of a precipitate (solid)
 - heat or light given off
 - odor produced
 - production of bubbles
 - change in temperature
- 6. pure substances (elements and compounds)
- 7. atoms -> building blocks of matter
 - -> three subatomic particles: p+, n, e-
 - -> electrically neutral: #p+ = #e-
- 8. atomic number = number of protons
- 9. periodic table of the elements consist of periods (rows) and groups/families (columns)
 - be able to label family and period names
 - elements are represented by chemical symbols
 - be able to draw staircase line
 - locate metals, nonmetals and metalloids
- 10. characteristics of metals and nonmetals
- 11. ions -> atoms that have gained or lost electrons
 - -> cations/positive ions/metallic ions
 - -> anions/negative ions/nonmetallic ions
 - -> be able to state ion names, number of protons, number of electrons and ion charges
 - -> be able to name monatomic ions
- 12. ionic bonds formed when electrons are transferred from metals to nonmetals
- 13. simple binary ionic compounds consist of 2 elements
 - electrically neutral
 - be able to name and provide chemical formulas

You will need your two periodic tables.

Physics 122 Friday, February 12/16

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- 1. Return -> Formative Perpendicular Components
- 2. Push vs Pull
- 3. Check -> Worksheet: Force Problems Type I
- 4. Static Equilibrium
- 5. Force Problems Type II Suspended Objects Simple
- 6. Worksheet Type II Simple HW
- 7. Force Problems Type II Suspended Objects Complex
- 8. Worksheet Type II Complex

Formative Assessment - Perpendicular Components

Thursday - Feb. 11/16

Determine the resultant of 243 km, 50.0° N of E and 57.0 km, 20.0° S of E. (268 km, 38.5° N of E)

R= 2.68 km, 38.5° NGE