

Science 9

Wednesday, September 18/19

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Student Data Collection Sheet - Return By:Frid., Sept. 20/19

1. 2nd Attempt - SA - Scientific Method and Experimental Design
- Friday, Sept. 20/19 (In Class)

2. Theories of the Origin of the Universe
- Big Bang Theory
- The Oscillating Theory/Cyclical Model/The Big Bounce

3. Hands-On Activity: The Ballooniverse -> To Be Continued

4. Conversions

5. A Light-Year

6. **312-2 -> Describe and classify the major components of the universe: nebulae, galaxies, giant stars, dwarf stars, quasars and black holes.**

Physics 112

Wednesday, September 18/19

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1. Summative Assessment - Basic Knowledge and Skills
- Thursday, Sept. 19/19

2. Unit 1 - Kinematics -> Section 1 - Vector Analysis

3. Mechanics

4. Kinematics

5. Types of Physical Quantities

6. Vectors: Direction, Notation & Representation

7. Physical Quantities to Know

8. Adding Vectors Graphically
-> Head-to-Tail Method
-> Parallelogram Method

9. Worksheet - Order of Vector Addition

10. Handout - Range of Resultant Magnitudes

11. Review: Primary Trigonometric Ratios

12. Review: Law of Pythagoras

13. Rubric - Adding Vectors Analytically

14. Worksheet – U1-S1: Order of Vector Addition

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 (including m/s \longleftrightarrow km/h)
12. rearranging equations

Physics 122

Wednesday, September 18/19

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1. Worksheet - 2D Force and Static Torque Problems
-> Mandatory: Push/Pull Problems
 2. FA: Pull/Push Problem -> LC Due: Thursday, Sept. 19/19
 3. Worksheet - 2D Force and Static Torque Problems
-> Suspended Object Problems
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Science 10

Wednesday, September 18/19

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1. Return:

SA - Periodic Table of Me, Myself and I
- 3 Days Late Today (Due: Friday, Sept. 13)

2. SA - Chem #1

- Date: Thursday, Sept. 19/19

3. Check:

Worksheet - Bohr-Rutherford Diagrams (Atoms to Ions)

4. [Worksheet - Chemistry: Ions and Subatomic Particles](#)

5. Naming Monatomic Ions

6. Periodic Table of Ions

7. [Worksheet #1 - Monatomic Ions](#)

8. SA - Your Name in Chemical Symbols

- Due: To Be Determined

9. Ionic Bonds

10. Simple Binary Ionic Compounds

11. Nomenclature Worksheet #2: Simple Binary Ionic Compounds

12. Polyatomic Ions

Science 10
Topics: SA - Chem #1

Marks

1. chemistry
2. matter
3. types of properties: physical and chemical
4. types of changes: physical and chemical
5. atoms -> building blocks of matter
 - > three subatomic particles: p^+ , n , e^-
 - > locations of three subatomic particles
 - > electrically neutral: $\#p^+ = \#e^-$
6. element
7. chemical symbols
8. periodic table of the elements - periods (rows)
 - groups/families (columns)
 - family and period names
 - location of metals, nonmetals and metalloids
 - characteristics of metals and nonmetals
9. atomic number = number of protons
10. standard atomic notation
11. Bohr-Rutherford Diagrams