

## Science 9

Tuesday, September 17/19

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### **Student Data Collection Sheet - Return By:Frid., Sept. 20/19 Media Coverage Forms**

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#### **Fire Drill**

1. Check:  
Worksheet - Experimental Scenarios - #3 and #4
2. 2nd Attempt - SA - Scientific Method and Experimental Design  
- Friday, Sept. 20/19 (In Class)
3. Theories of the Origin of the Universe - Continue  
- Edwin Hubble and the Hubble Space Telescope (Video)  

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- Big Bang Theory  
-> Video: How the Universe Works - Big Bang Theory  
- The Oscillating Theory/Cyclical Model/The Big Bounce
4. Hands-On Activity: The Ballooniverse
5. **312-2 -> Describe and classify the major components of the universe: nebulae, galaxies, giant stars, dwarf stars, quasars and black holes.**

# Physics 112

Tuesday, September 17/19

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1. Check:  
FA - SI Base and Derived Units, SI Prefixes, Metric Conversions  
and Rearranging Equations
  2. Topics -> SA - Background and Knowledge
  3. Learning Targets and Task Sheet
  4. Sample - Summative Assessment: Basic Knowledge and Skills
  5. Summative Assessment - Basic Knowledge and Skills  
- Thursday, Sept. 19/19

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6. Unit 1 - Kinematics -> Section 1 - Vector Analysis
  7. Mechanics
  8. Kinematics
  9. Scalar and Vector Quantities
  10. Direction
  11. Vector Notation
  12. Graphical Representation of Vectors
  13. Definitions of Scalar and Vector Quantities
  14. Resultant Vector

# 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

Tuesday, September 17/19

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1. Questions?  
Worksheet - 2D Force and Static Torque Problems  
-> Push/Pull Problems
  2. Worksheet - 2D Force and Static Torque Problems  
-> Mandatory: Push/Pull Problems
  3. FA re Pull/Push Problem
  4. FP1.5 - Define static equilibrium.
  5. FP1.6 - Solve Type II force problems (simple suspended object problem). -> Continue
  6. FP1.7 - Solve Type II force problems (complex suspended object problem).
  7. Worksheet - 2D Force and Static Torque Problems  
-> Suspended Object Problems
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## Science 10

Tuesday, September 17/19

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1. Return:  
SA - Periodic Table of Me, Myself and I  
- 2 Days Late Today (Due: Friday, Sept. 13)
  2. Check  
Review for SA: Chem #1 (Chemistry to Bohr-Rutherford Diagrams)
  3. SA - Chem #1  
- Date: Thursday, Sept. 19/19
  4. Ions
  5. Worksheet - Bohr-Rutherford Diagrams (Atoms to Ions)
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6. Worksheet - Chemistry: Ions and Subatomic Particles
  7. Naming Monatomic Ions
  8. Periodic Table of Ions
  9. Worksheet #1 - Monatomic Ions
  10. SA - Your Name in Chemical Symbols  
- Due: \_\_\_\_\_
  11. Ionic Bonds
  12. Simple Binary Ionic Compounds
  13. Nomenclature Worksheet #2: Simple Binary Ionic Compounds

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