

Science 10

Tuesday, April 10/18

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Return - SA - Chem #2

1. Check
Worksheet - Translating Word Equations
 2. FA - Translations
 3. SA - Translating Reactions into Balanced Chemical Equation
- Wednesday, April 11/18
 4. Complete for Tomorrow:
[ABC Brainstorming - Chemistry](#)
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5. Unit 2 - Motion
6. Physics
7. Linear Motion
8. Physical Quantities
9. SI System of Units - Base Units
- Derived Units
10. Scientific Notation
11. Certainty and Significant Digits
12. Our Rule for Counting SDs
13. Exact and Defined Values
14. Rounding Values

Physics 112

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1. Questions? -> SA: U1-S3 - Mathematical Analysis
 2. FAs - Force, Newton, Types of Forces and Weight
 3. Free Body Diagrams - Continue
 4. [Worksheet - Free Body Diagrams](#)
 5. SA - U2 S1 -> Topics
-> [Thursday, April 12/18](#)

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6. Concepts: U2 - Section 2 -> Newton's Laws of Motion
 7. Inertia
 8. Newton's First Law of Motion
 9. Worksheet - Practice Problems -> C4, Page 144: 5-7

Topics - A: U2 - S1

- > definitions: force, net force
- > five specific forces
 - > definitions and symbols (\mathbf{W} , \mathbf{F}_a , \mathbf{N} , \mathbf{T} , \mathbf{F}_f)
- > types of forces and examples
- > draw FBDs (free body diagrams)
 - > objects at rest
 - > objects with uniform motion
 - > objects with uniformly accelerated motion
- > formulas

$$\vec{W} = m\vec{g}$$

-> perform calculations

$$F_f = \mu N$$

-> no calculations yet

-> μ has no units

-> static (stationary)

-> kinetic (moving)

-> $\mu_s > \mu_k$

-> $\mu < 1$

Physics 122

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1. Questions? -> SA - Unit 1 - S3&4
 2. Electrostatic Force - Continue
 3. Coulomb's Law
 4. [Worksheet - Charge and Coulomb's Law \(Two Charges\)](#)
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5. Coulomb's Law - Three Charges in a Line
 6. Coulomb's Law - Three Charges at Angles
 7. Worksheet - Coulomb's Law - Three Charges
 8. Electric Fields

Science 122

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1. Questions? -> SA - Fluid Mechanics
 2. Radioactive Decay: Alpha, Beta and Gamma - Continue
 3. Decay Series
 4. Half-Life
 5. Activity and Decay Constants - To Be Continued
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6. Worksheets: Half-Life, Activity and Decay Constants