

Physics 112

Monday, April 8/19

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1. Return: FA - FBDs -> See Next Page
 2. Questions?
Worksheets:
Problems for Understanding (PFU) Page 151, #26-28, 30-32, 34
Practice Problems (PP) - C4, Page 144: 5-8
 3. FA: First Law Problem - Tomorrow
 4. Newton's Second Law of Motion
(Law of Force, Mass and Acceleration)
 5. Second Law Problems - Three Types
-
6. Second Law Problems - Examples

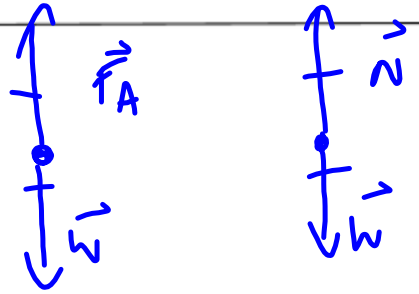
Physics 112

Name - _____

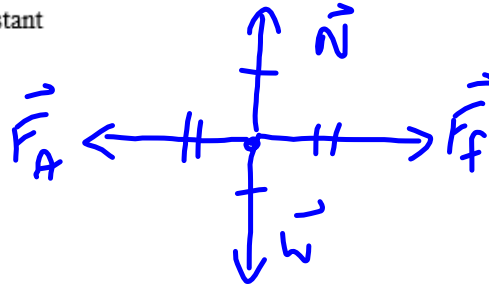
Formative Assessment – Free Body Diagrams (D1.9)

Draw a free body diagram for the book in each scenario.

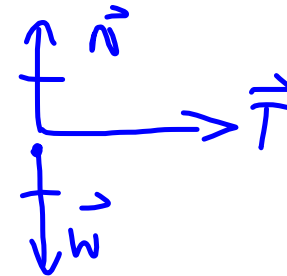
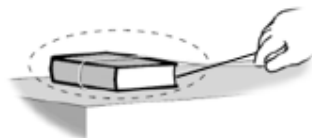
a) A book is supported by your hand.



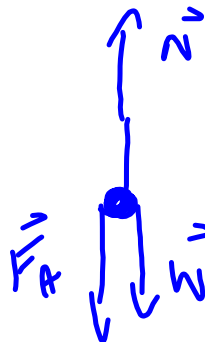
b) A book is pushed across a desk at a constant speed by your hand.



c) A book pulled by a string accelerates across a desk. Ignore friction.



d) Your hand pushes down on a book resting on a desk.



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1. FA - Charges in a Line
FA - Charges Involving Angles

2. Questions?
Worksheet -> Textbook: Page 646, #11-14
Textbook: Page 655, #20-24

Electric
Field
Strength.

3. FA - Electric Field Strength (optional)

4. Review - Gravitational Potential Energy

5. Electric Potential Energy

6. Electric Potential Difference

7. SA - Electrostatics

Date: Thursday, April 11/19

Topics and Format - See Next Page

8. Unit 3 - Electric Circuits

9. Potential Difference and Flowing Charge

- Electron Flow

- Conventional Current

10. Electric Current

11. Circuit Symbols

12. Ammeters vs. Voltmeters

13. Resistance to Flow of Charge

14. Factors Affecting Resistance in a Wire

15. Worksheet -> Textbook: C15, Page 708, #16-20

Physics 122

Topics - U3 S1

- electrostatics
 - types of charge (+ and -)
 - transfer of charge
 - Law of Conservation of Electric Charge
 - electrostatic force (attractive/repulsive)
 - Coulomb's Law: 2 charges, 3 charges
 - electric fields: diagrams - 1 source charge } non- uniform
 - 2 source charges } non- uniform
 - 2 charged plates } uniform
 - electric field strength/intensity
 - electric potential energy: E_Q , joule
 - electric potential difference (voltage): V , volt
-

Format: **MC**


Problems

- Coulomb's Law - 2 charges
- Coulomb's Law - 3 charges with angle
- Electric Field Strength
- Electric Field Strength

$$*q = N/e$$

Science 122

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1. Return: SA - Hydrodynamics
 2. Moles and Molar Mass
 3. Questions?
Worksheet - Half-Life, Activity and Decay Constant #1 and #2

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4. Quantum Theory - Video
 5. Electron-volt
 6. Frequency
 7. Quantization of Energy

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1. FA - Counting Atoms
2. Questions?
Worksheets - Balancing Chemical Equations
3. Types of Chemical Reactions
4. Formation Reactions
5. Decomposition
6. [Worksheet: Formation and Decomposition Reactions](#)

7. Single Replacement Reactions
8. Double Replacement Reactions
9. Worksheet: Single and Double Replacement Reactions