

# Physics 112

<http://mvhs.nbed.nb.ca/>

Tuesday, May 7/19

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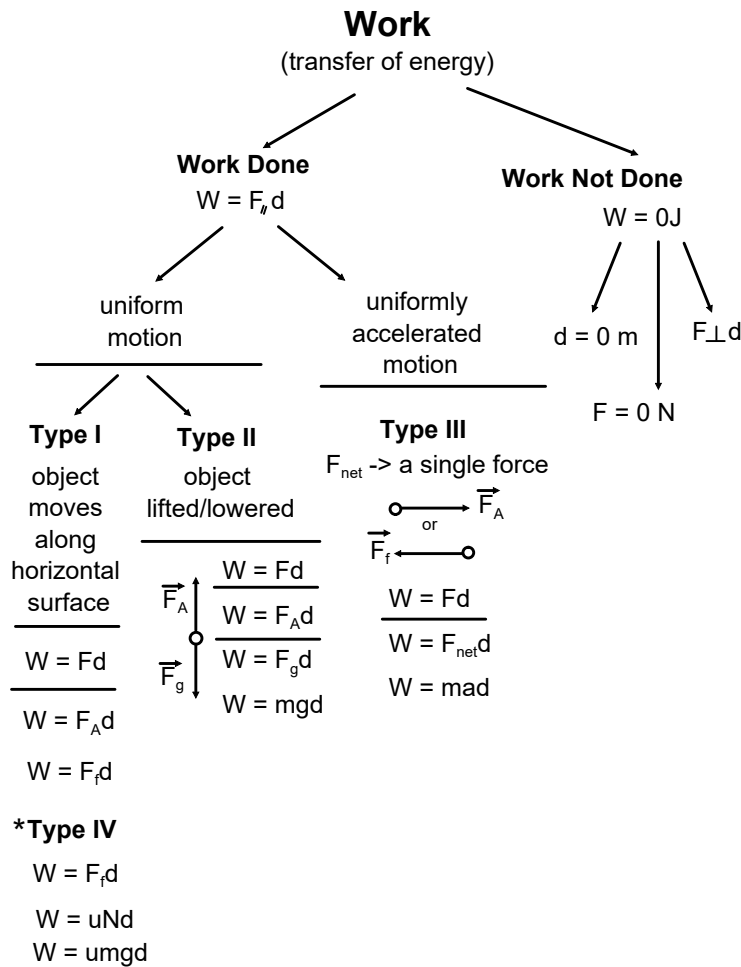
1. Reassessment  
SA - U2: S1&2 -> Date: Noon - Thursday, May 9/19
  2. Questions?  
SA- U2 S3 - Momentum, Impulse, Etc.
  3. Questions?  
Worksheet - C6 - Work: PP #4-10
  4. Types of Work - Positive and Negative Work
  5. [Worksheet - C6 - Positive and Negative Work](#)  
[Page 235 - PP #14, 15](#)
- 
6. Force vs Displacement Graph
  7. Unit 3 - Section 1 - Summary
  8. FA - Work Problems
  9. Concept Sheet - U3 S2 - Types of Energy and Work-Energy Theorems
  10. Kinetic Energy
  11. Work-Kinetic Energy Theorem

Physics 112

Unit 3 - Section 1  
Summary

Physical Quantity	Type of Quantity	Unit
work	scalar	J*
force	vector	N
displacement	vector	m
acceleration	vector	m/s <sup>2</sup>

\*J = Nm =  $\frac{\text{kgm}}{\text{s}^2} \text{m} = \frac{\text{kgm}^2}{\text{s}^2}$



**Work Not Done**  
 $W = 0J$

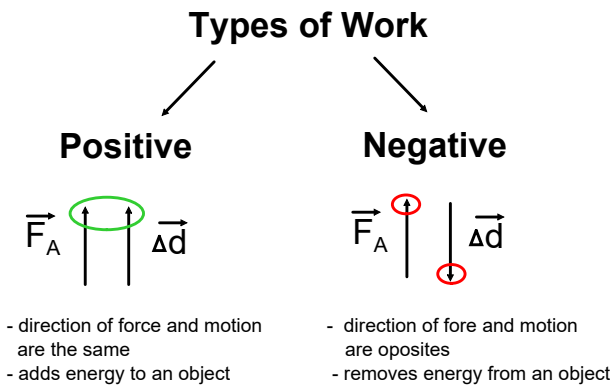
$d = 0 \text{ m}$

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$F = 0 \text{ N}$

$F \perp d$

\*Type IV  
 $W = F_f d$   
 $W = uNd$   
 $W = umgd$



## Physics 122

Tuesday, May 7/19


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1. Return/Submit: FA - Uniform Circular Motion  
FA - Unbanked/Banked Curves
  2. SA- Experiment 8.1 - Kepler's Laws - Page 49  
- Due: Tuesday, May 7/19
  3. Questions?  
Worksheet - Kepler's Laws  
Worksheet - Universal Law of Gravitation  
Chapter 12 -> Page 580, PP#1-7
  4. Calculating the Value of "g"
  5. Orbital Speed
  6. The Period of an Orbiting Object
  7. Worksheets (3) - Kepler's Law, Universal Gravitation, Etc.
  8. SA U2 S1&2 - Tuesday, May 14/19
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## Science 122

Tuesday, May 7/19

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### 1. Questions?

Worksheet - #63

Worksheet - #64

Worksheet - Assigning Oxidation Numbers

Worksheets - Physic 30 - Unit 6: Redox Reactions & Electrochemistry

Practice Set 3: Balancing Redox Reactions

### 2. SA - Electrochemistry

- Topics

- Date: Frid. May 10/19.

### 3. FA - Electrochemistry

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## Science 122 - Electrochemistry

### Terms:

electrochemistry, reduction, reducing agent, oxidation, oxidizing agent, half-reaction, redox reaction, spontaneous reaction, oxidation number/state

### MC/Short:

- generalizations for r/o agents
- identify oxidation/reduction reactions
- identify oxidizing/reducing agents in reactions
- build a table of redox half-reactions
- predict redox reactions using table of half-reactions
- assign oxidation number/state
- balance redox reactions using oxidation numbers/states

# Science 10

Tuesday, May 7/19

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1. Submit: FA - Identifying and Counting Digits  
FA - Rounding Measurements

2. Questions?  
Worksheet - Rearranging Equations

Roller Coasters

3. Metric Conversions

4. Worksheets - Metric Conversions

5. SA - Physics #1 - Topics  
- Date: To Be Decided

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## SA - Physics #1 - Topics

1. definitions: physics, linear motion, physical quantity, significant digits, certainty, exact value, defined value, rounding digit, defining equation
2. SI System - International System of Units
  - know the SI base units for length, time and mass
  - be able to identify a derived unit
3. certainty - identify certain and uncertain digits in a measurement
  - determine the certainty of a measurement by stating its number of significant digits
4. SDs and operation rules - Certainty Rule
  - > multiply and divide
  - > total # of significant digits
  - Precision Rule
    - > add and subtract
    - > # of digits after the decimal

### **\*scientific notation\***

5. rearrange an equation for a specified variable
6. perform metric conversions using conversion factors