

Science 10

Thursday, May 17/18

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Roller Coaster: Due: Friday, June 1/18

Optional Assignment - Graphing Characters (Max. 2)

- Due: Friday, June 1/18

1. SA - Physics #2 -> Friday, May 18/18
-> Topics

2. Review - SA: Physics #2

3. Roller Coasters

Topics - SA: Physics #2

1. Plot and label points in the four quadrants.
2. Write the coordinates of a plotted point.
3. Determine the slope of a line using:

$$m = \frac{\text{rise}}{\text{run}} \quad \text{OR} \quad m = \frac{y_2 - y_1}{x_2 - x_1}$$

4. Draw and label a distance vs. time graph.
5. Be able to determine the speed of an object from a distance vs. time graph. \rightarrow slope.
6. Match a graph to a story/interpret a graph.
7. Answer questions about distance vs. time graphs.
8. Solve average speed problems. \rightarrow

Physics 112

Thursday, May 17/18

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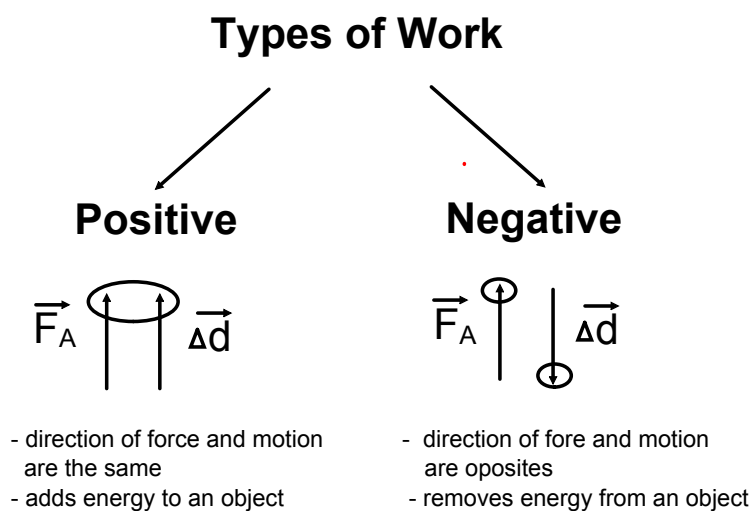
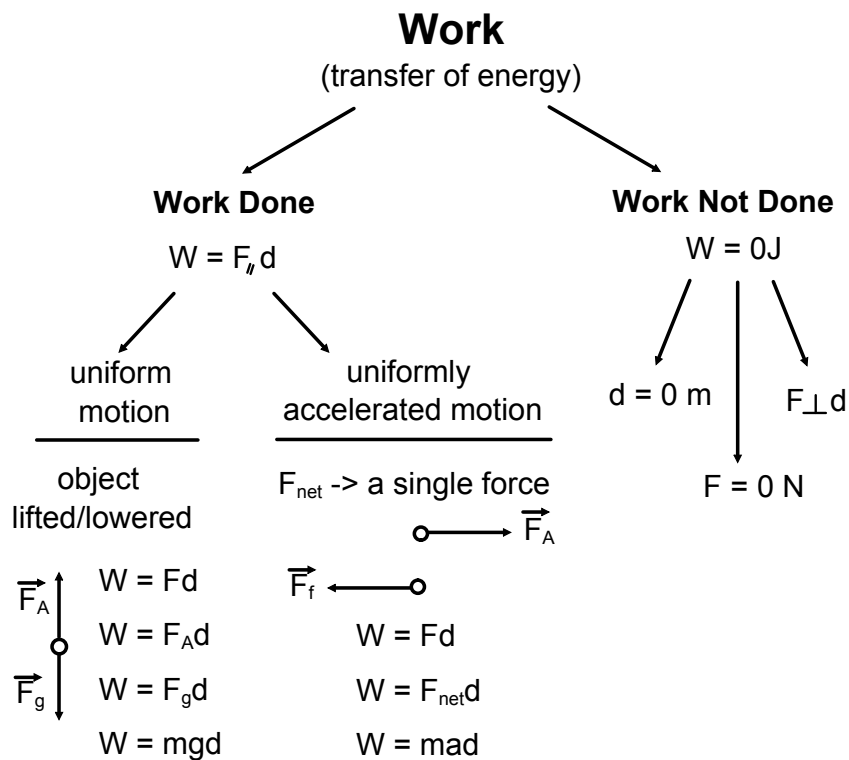


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1. SA - U3 S1 -> Friday, May 18 or Tuesday, May 22
-> **Summary of Section -> See Next Page**
 2. U3 - S2: Types of Energy and Work-Energy Theorems
 3. Concepts U3S2
 4. Types of Energy - To Be Continued
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5. Kinetic Energy
 6. Work-Kinetic Energy Theorem
 7. Worksheet:C6 PP #19-21 -> Kinetic Energy
C6 PP #22-25 -> E_k and Work- E_k Theorem

Unit 3 - Section 1 Summary

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

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



Physics 122

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1. Check:
Worksheet - Horizontal Projectile Problems: PP #1-8
 2. Submit: FA - Horizontal Projectile
 3. Worksheet - C11, Text 543, PP #9-12
Worksheet - Text: Page 549, PP #13
Page 570, Prob. #17, 19, 20 (omit graph)
Worksheets - Mixed Problems
 4. Unit 2 - Section: Uniform Circular Motion
 5. Horizontal Circular Motion
 6. Centripetal Acceleration
 7. Centripetal Force
 8. Formulas - To Be Continued
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9. Worksheet - Circular Motion

Science 122

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1. Check:

Worksheet - Magnetic Field Produced by a Wire

Worksheet - Force on a wire in a Magnetic Field

Worksheet - Magnetic Force on a Single Charged Particle

Worksheet - Magnetic Fields and Circular Paths

Worksheet - Circular Trajectories and Applications

Worksheet - Red Text: PP, Applying Concepts and Problems

Worksheet - Conducting Rods and Lenz's Law

Worksheet - Transformers

2. **SA - Magnetism -> Wednesday, May 23/18**

3. Topic - Electrochemistry

4. Reduction and Reducing Agents

5. Oxidation and Oxidizing Agents