

## Science 10

Wednesday, May 9/18

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Roller Coaster: Due: Friday, June 1/18  
Optional Assignment - Graphing Characters (Max. 2)  
- Due: Friday, June 1/18

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1. Return - FA - Graphing Basics
  2. [Worksheet - Matching a Graph to a Story](#)
  3. Roller Coasters
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4. Worksheet - More Distance vs Time Graphs
  5. Average Speed
  6. Problem Solving Strategy
  7. Sample Problems
  8. Worksheets - Average Speed Problems

# Physics 112

Wednesday, May 9/18

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1. Return -> FA - Momentum, Impulse and Impulse-Momentum Theorem
  2. Check:
    - > Worksheet: C5 - Momentum -> Page 197: PP #29
    - C5 - Impulse -> Page 200: PP #30-32
    - > Worksheets:
      - C5 - Impulse-Momentum Page 203: PP #33-35
      - C5 - Momentum and Impulse-Momentum Page 209: PFU #37-45
    - > MC
    - > Worksheet - Extra Problems
  3. **SA - U2S3 (Momentum, Impulse, Momentum-Impulse Theorem)**  
**- Friday, May 11 (MC and Problems)**
  4. Topics - Final Exam
  5. Review for Final Exam - Problems
  6. Unit 3 - Work, Energy and Power
  7. Concept Sheet - U3 S1
  8. Energy
  9. Work
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10. Worksheet - Work
  11. Three Cases - No Work is Done

## Physics 122

Wednesday, May 9/18

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1. Return -> FA - Current, Resistance in a Wire and Power  
Justifications

2. Worksheets - Circuit #1  
Circuit #2

3. SA - Electric Circuits  
- **Thursday, May 10/18**  
- Format - MC and Problems  
- Electric Current  
- Conventional Current vs Electron Flow  
- Resistance in a Wire  
- Symbols, Ammeter, Voltmeter  
- Ohm's Law  
- Power  
- Series, Parallel and Combination Circuits

4. Unit 2 -Section 1 - Projectiles

Answers - Circuits #1 and #2Circuit #1

	V (V)	I (A)	R ( $\Omega$ )
R <sub>1</sub>	0.745	0.745	1.0
R <sub>2</sub>	1.22	0.612	2.0
R <sub>3</sub>	1.84	0.612	3.0
R <sub>4</sub>	0.552	0.138	4.0
R <sub>5</sub>	0.69	0.138	5.0
R <sub>6</sub>	0.207	0.0345	6.0
R <sub>7</sub>	0.242	0.0345	7.0
R <sub>8</sub>	0.438	0.0548	8.0
R <sub>9</sub>	0.438	0.0487	9.0
R <sub>10</sub>	1.38	0.138	10.0
R <sub>11</sub>	8.20	0.745	11.0
Total	12.0	0.745	16.1

	V (V)	I (A)	R ( $\Omega$ )
R <sub>1</sub>	26	26	1.0
R <sub>2</sub>	8.0	4.0	2.0
R <sub>3</sub>	4.5	1.5	3.0
R <sub>4</sub>	6.0	1.5	4.0
R <sub>5</sub>	7.5	1.5	5.0
R <sub>6</sub>	15	2.5	6.0
R <sub>7</sub>	3.0	0.43	7.0
R <sub>7</sub>	3.0	2.07	1.4
R <sub>8</sub>	240	30	8.0
Total	266	30	8.9

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1. **FA/SA - Magnetism #1**  
- **Friday, May 11/18**
  2. 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
  3. Background - Centripetal Force
  4. Trajectory of A Single Charged Particle in a Uniform Magnetic Field
  5. Worksheet - Magnetic Fields and Circular Paths
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6. Background - Strength of Electric Field