

Science 122

Friday, January 13/17

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1. SA - Thermodynamics
2. [Worksheet #64 - HW](#)
3. SA - Electrochemistry: Tentatively -> Tuesday

Physics 112

Friday, January 13/17

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1. Exam Review: Problem #6 - Impulse-Momentum Problem
 2. Frequency and Period
 3. Wave Speed
 4. Summary: Measures of a Wave
 5. [Worksheet - Frequency, Period and Wave Speed - HW](#)
 6. SA - U4 - Waves - TBA
 7. Exam - 84 Problems
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Physics 112 - Exam Review: Impulse-Momentum Problem
Frid., January 13/17

①	constant velocity \vec{v}	constant momentum \vec{p}
	$\vec{p} = m\vec{v}$	

②	velocity changes $\vec{v}_i \rightarrow \vec{v}_f$	momentum changes $\vec{p}_i \rightarrow \vec{p}_f$
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$$\Delta \vec{p} = \vec{p}_f - \vec{p}_i$$

$$\Delta \vec{p} = m\vec{v}_f - m\vec{v}_i$$

③ impulse \vec{J}

$$\vec{J} = \vec{F}t$$

\downarrow \downarrow
 dir dir

Egg Demo

Sheet	brick
$\vec{J} = \vec{F}t$	$\vec{J} = \vec{F}t$

④ Impulse-Momentum Theorem

$$\vec{J} = \Delta \vec{p}$$

$$\vec{J} = \vec{F}t = \Delta \vec{p}$$

$$= \vec{p}_f - \vec{p}_i$$

$$= m\vec{v}_f - m\vec{v}_i$$

$$= m(\vec{v}_f - \vec{v}_i)$$

$$= m \Delta \vec{v}$$

* $\vec{J} \rightarrow Ns = \frac{kgm}{s}$

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1. Worksheet: Charge and Coulomb's Law
Textbook - Page 638, #1-5
Worksheet -> Textbook: C14 Page 646, #11-14
Textbook: C14 Page 655, #20-24
 2. Review - Gravitational Potential Energy
 3. Electric Potential Energy
 4. Electric Potential Difference
 5. Unit 3 - Section 2 - Electric Current
 6. Electric Current
 7. Conventional Current vs. Electron Flow
 8. Ammeters vs Voltmeters
 9. Resistance to Flow of Charge
 10. Ohm's Law
 11. Series Circuits - To Be Continued
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Science 10
Friday, January 13/17

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1. Roller Coasters - 3 Days Late
 2. **Assignment - Oh, What a Tangled Web**
- Due - Monday, Jan. 16/17
 3. Indicator Species
 4. Optional: Article Review - Indicator Species
- Friday, Jan. 20/17
 5. Factors Affecting Ecosystems
 6. Worksheet - Abiotic and Biotic Factors
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7. Biodiversity
 8. Change and Stability in Ecosystems
 9. DDT
 10. Cats in Borneo
 11. Bioaccumulation and Biomagnification
 12. Sustainability
 13. Comparing Energy and Matter
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