



Science 122

Thursday, January 19/17

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1. Exam Review

Physics 112

Thursday, January 19/17

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1. SA - U4 - Waves

2. Exam Review - 84 Problems

Physics 122

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1. SA U3 - Electrostatics and Electric Circuits
 2. Exam Review
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Science 10

Thursday, January 19/17

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1. **Assignment - Oh, What a Tangled Web**
- 3 Days Late (Due - Monday, Jan. 16/17)
2. Optional: Article Review - Indicator Species
- **Friday, Jan. 20/17**
3. Last Assessment!
4. Practice Exam - Chemistry Topics
- Physics Topics

Science 10
Unit 2 –Topics: Physics Quiz #3

1. types of physical quantities:
 - scalar quantities – magnitude only
 - > examples: time, distance, speed
 - vector quantities – magnitude and direction
 - > examples: position, displacement, velocity, acceleration
2. symbols and units for physical quantities
3. average speed: $v_{av} = \frac{d}{t}$
4. vectors can be represented graphically using arrows
5. reference point (starting point)
6. conventional positive and negative directions
7. displacement: $\vec{\Delta d} = \vec{d}_f - \vec{d}_i$
8. velocity: $\vec{v} = \frac{\vec{\Delta d}}{t}$
9. average velocity: $\vec{v}_{av} = \frac{\vec{\Delta d}_r}{t}$
10. acceleration: $\vec{a} = \frac{\vec{v}_f - \vec{v}_i}{t}$
11. compare velocity and acceleration directions to determine if an object speeds up or slows down
12. position-time graphs: slope = velocity
13. velocity-time graphs: slope = acceleration
area = displacement
14. types of motion: uniform motion → constant velocity (no acceleration)
uniformly accelerated motion → constant acceleration
→ changing velocity