

Science 9

Thursday, January 9/20

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ELPA

STEM Fair - Thursday, February 6/20 (Morning)

1. Activity: Human Genetic Disorders -> Continue
-> Due: Friday, Dec. 20/19
-> 3 Days Late
 2. Crossword Puzzle - Cellular Processes (Optional)
 3. Pros and Cons - Handout and Graphic Organizer
 4. Reproduction
 5. Asexual Reproduction
 - budding
 - binary fission
 - fragmentation
 6. Sexual Reproduction
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7. Advantages and Disadvantages of Asexual and Sexual Reproduction

Physics 112

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Thursday, January 9/20

1. Questions?

Worksheet: Types of Energy and Work-Energy Theorems

-> Elastic Potential

-> Mandatory Problems

2. FA - Elastic Potential Energy - Due: Wed., Jan. 8/20

3. Worksheet - Systems and Conservation of Energy

4. FA - Mechanical Energy - Optional -> No LC Required

FA - Conservation of Energy

5. SA - Work, Types of Energy, $W \Rightarrow E$, Conservation of Energy

- Date: Tuesday, Jan 14/20

6. Exam Review - Sample Problems

Physics 122

Thursday, January 9/20

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1. Worksheet - Electric Charge and Coulomb's Law
 2. Review - Gravitational Potential Energy
 3. Electric Potential Energy
 4. Electric Potential Difference
 5. Unit 3 - Section 2: Electric Circuits
 6. Potential Difference and Flowing Charge
 7. Electric Current
 8. Circuit Symbols
 9. Conventional Current vs. Electron Flow
 10. Ammeters vs Voltmeters
 11. Resistance to Flow of Charge
 12. Ohm's Law
 13. VIR Chart
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14. Series Circuits
 15. Parallel Circuits
 16. Complex/Combination Circuits
 17. Worksheet - Electric Circuits

Science 10

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1. Finish Checking -> Review - SA Physics #3
2. SA Physics #3 - Date: Monday, Jan. 13/20
3. Practice Exam

Topics - SA: Physics #3

1. definitions: scalar quantity, distance, speed, vector quantity, reference point, position, displacement, constant velocity, resultant displacement, average velocity, acceleration
2. directions: positive (east, north, up, right)
negative (west, south, down, left)
3. physical quantities: type, symbol and unit

4. determine the slope of a line using:

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

5. identify types of motion:

1. uniform (constant velocity)
2. uniformly accelerated motion (changing velocity)
x acc. is constant

6. answer questions about position vs. time graphs

7. draw a velocity vs. time graph given a position-time graph

8. answer questions about velocity vs. time graphs

9. describe the motion of an object by comparing the directions of the object's velocity and acceleration

10. solve word problems:

- (i) displacement
- (ii) constant velocity
- (iii) average velocity
- (iv) acceleration

Diagram illustrating a box with a plus sign (+) above it and a minus sign (-) below it. The text "slowing down" is written across the box. Below the box, the text "(including freely falling body)" is written in blue.