

Science 10

Thursday, April 6/17

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1. Chemistry Test -> Some Still to Write
 2. Check -> Worksheet - Significant Digits and Rounding
 3. Certainty Rule for Multiplying and Dividing Measurements
 4. Precision Rule for Adding and Subtracting Measurements
 5. Worksheet - Certainty and Precision Rules
[HW - Problems Involving Multiplication and Division](#)
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6. Defining Equations
7. Area Calculations
8. Rearranging Equations
9. Worksheet - Rearranging Equations
10. Metric Conversions

Science 10

Worksheet – Counting Significant Digits and Rounding - KEY

1. State the number of significant digits in each measurement.

- 1) **2804 m** 4
- 2) **2.84 km** 3
- 3) **5.029 m** 4
- 4) **0.003068 m** 4
- 5) **4.6 x 10⁵ m** 2
- 6) **4.06 x 10⁻⁵ m** 3
- 7) **750 m** 3
- 8) **75 m** 2
- 9) **75,000 m** 5
- 10) **75.00 m** 4
- 11) **75,000.0 m** 6
- 12) **10 cm** 2

2. Round the following numbers as indicated:

To four figures:

3.682417	21.860051	375.6523	112.511	45.4673
3.682	21.86	375.7	112.5	45.47

To one decimal place:

1.3511	2.473	5.687524	7.555	8.235
1.4	2.5	5.7	7.6	8.2

To two decimal places:

22.494	79.2588	0.03062	3.4125	41.86632
22.49	79.26	0.03	3.41	41.87

Physics 112

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Midterm - Friday, April 7/17

1. FA - Force Problem
 2. Second Law Problems - Continue
 3. Worksheet - Second Law Problems
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Review for Midterm: V-T Graph

a) 6.0 m/s

b) $2.0 \text{ m/s}^2, \text{ W}$

c) 75 m

d) $0.71 \text{ m/s}, \text{ W}$

e) 12 s

f) $0.67 \text{ m/s}^2, \text{ E}$

g) west

Formative Assessment - Force Problem

A student on planet Luvfizics presses a 1.7 kg textbook against a vertical wall. The student applies a force of 51 N in order to prevent the textbook from sliding down the wall. What is the acceleration due to gravity on LuvFizics? Include a labelled FBD for the textbook.

Note:

Surfaces	μ_s	μ_k
textbook and wall	0.284	0.196

Physics 122

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Midterm - Friday, April 7/17

1. Return -> SA - U1S3&3
 2. Questions re Midterm?
 3. Worksheets - 2D Collisions and Explosions
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