



Weekly Homework Sheet- **STEM-Physics1 MS1** **Reviewing the Extraordinaries** Week of (9/5/11)

1. **Due 2nd class of the week (Wednesday) (9/7/11) Computer Work-**
 - a. **Make Mr. Dixon a Coach for Khan Academy My ID-**
<http://facebookid.khanacademy.org/1285086362> ,
 - b. **Download a temporary copy of an online Text book we hope to be using-**
Conceptual Physics from Kinetic Books and interact with the first 2 chapters.

How to use Kinetic Books

i. Goto <http://www.kineticbooks.com/physics/conc2/installer/index.html>

ii. Type in **Login: mdixon@parksideca.org** and **Password: oqK62cFy**

This is part of our beta test during a trial period. You will get your own login if we decide to buy copies for everyone.

iii. Press the installer you need (Widows is straight forward) This may take a few minutes.

iv. Run the SetupCONC.exe file and follow the directions. This too may take a few minutes.

v. Type the Login again and you should be in the book.

vi. I want you to explore the first few chapters, but especially try the concepts by clicking on them in parts **1.1, 1.2 & 1.3 You can get your parent to sign that you did this here:** _____

2. **Due Thursday(9/8/11)**

- a. **Try These basic Trig Problems**

- <http://www.mathwarehouse.com/trigonometry/sine-cosine-tangent.html>

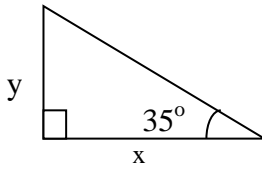
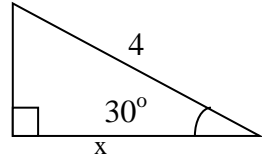
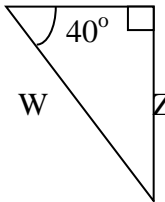
- b. **Review Sheet #3**

3. **Due Friday (9/9/11) Mastery Sheet 1**

Name: _____ Grade: _____ Date: _____

PCA/CFA Equation Review #3

Due Thurs

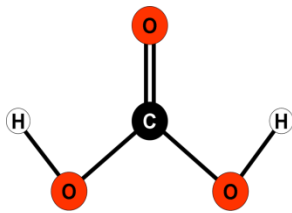
1. MKS STANDS for:	2. Define Cosine	3. Name 2 Characteristics of a Vector:
4. Label the given sides		
		
5. $D = 4t^3 + 7$ $V = \underline{\hspace{2cm}}$ $A = \underline{\hspace{2cm}}$	$D = -7t^7 - 7$ $V = \underline{\hspace{2cm}}$ $A = \underline{\hspace{2cm}}$	$D = \underline{\hspace{2cm}}$ $V = -20t^6 - 7$ $A = \underline{\hspace{2cm}}$
6. $\cos 30^\circ = \underline{\hspace{2cm}}$ 7. $\sin 45^\circ = \underline{\hspace{2cm}}$	7. $A^2 = 5b + 2C$ Solve for C	8. \$1 = 12.8 Pesos Make a special 1 and convert a. 25.6 pesos into \$ b. \$25.6 into pesos
9. A. This one is not quite directly related to Physics... but life. Where do you see yourself in 5-6 years? <div style="text-align: right; margin-right: 100px;">↑</div>		
B. How do you plan to get there? You may want to include 1. A brainstorming different short term goals, 2. Make a time line, 3. If things don't go like you want them, what can you do, 4. What things will motivate you to act, and get you excited about where you are heading?		

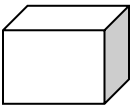
Name: _____

Due Friday in STEM Class

Daily STEM Mastery Sheet 1

Spend 15-25 minutes Max time on EACH Day. Try to at least start each problem and look at the problems on Monday, that we go over, or previous weeks for help. If more time is needed let me know. They should get easier and quicker to do as we go along.



<p>1) Do these as fast as you can</p> <p>a. $18+9=$</p> <p>b. $18 \times 9=$</p> <p>c. $18-9=$</p> <p>d. $18 \div 9=$</p> <p>Arithmetic</p>	<p>2)</p> <p>a. What is 10% of 222? _____</p> <p>b. What is half of a? _____</p> <p>c. What is 15% of 222? _____</p> <p>10 & 15 %</p>	<p>3) a. What are the 3 parts of the atom?</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>Definitions</p>
<p>1) Palindrome Time</p> <p>What is the next Palindrome after 2992? _____</p> <p>How far is it from 2992? _____</p> <p>Patterns</p>	<p>4) $D=5t^{12}$</p> <p>$V=$</p> <p>Slopes</p>	<p>5) Perimeter of a Trapezoid</p> <p>What is the Perimeter of the trapezoid above? _____</p> <p>Area, Volume, Perimeter</p>
<p>6) What Comes next: 1,2,4,7,11,____, ____.</p> <p>Hint: How apart are the numbers?</p> <p>Algebra/ Number Sense</p>	<p>7) </p> <p>a. A. How many sides? _____</p> <p>b. Name: _____</p> <p>c. If it had 10 more sides, what would its name be then? _____</p> <p>Classification</p>	<p>8) <u>Estimate how many minutes are in 1 day:</u> _____</p> <p>Estimations</p>
<p>10) How many Quarts are in a gallon? _____ (hint look at the name).</p> <p>Measurement/ Number Sense</p>	<p>11) The atomic MASS number is the same as the number of _____ in an atom.</p> <p>Chemistry</p>	<p>12) During what month is the earth closest to the sun? _____</p> <p>Weekly Topics</p>