

Week #10, Week of Mon(10/31) to Mon (11/7)

Topics/Content/Skills:

Vectors/ How things Move/Measuring velocity

Skills:

- Identify and calculate the acceleration of a pulley with 2 weights (Atwood Machine)
- Identify a velocity and Acceleration graph from a Displacement vs Time graph.
- Solve 1 and 2 step algebra problems for trig.
- Can convert to and from Scientific notation.
- Can convert between 1 level of units. (ex. from cm to Meters)
- Understand What Kinematics means, and knows the basic equations of kinematics.
- Understands that Projectile motion has 2 types of motion going on.

Vocabulary/Key Terms/Formulas:

Vectors, components, atwood machine, Tension, Compression, truss, engineering.

Homework/Classwork: (All homework is due the next class day unless indicated.)

	<u>In Class</u>	<u>Homework Due in this Class</u>
<u>Monday</u> <u>10/31</u>	<u>Prezi Practice</u>	Hmwrk sheet #26 Design finished EXTRA HELP SESSION>>>>>> MS1 & HS1a at Lunch esp. But also MS2 & HS1b
<u>Tuesday</u>	<u>Inquiry based Lab</u>	Hmwrk Sheet #27 Some Scientific Saints
<u>Wednesday</u> Not HS1	<u>Test Prep</u>	Hmwrk sheet #28 Review
<u>Thursday</u> HS1 Double	<u>Quiz #4</u> <u>Khan Academy (HS1)</u>	Hmwrk sheet #29 (and #24 (HS1)) Review
<u>Friday</u>	<u>No Class on Fridays</u>	<u>NA</u>
<u>Monday</u> <u>11/7</u>		#30 Writing and Review Questions/ Finish any unfinished work...

Tests/Due Dates: There will be a 45 min TEST(#2) on Thursday Oct. 27

Quiz- Test Topics: Equation Circles, Conversions, Solving for trig questions, REVIEW of all other Material so far: _Density, Perimeter/Circumference, Area (rectangles, circles), volume (rectangular prisms, Spheres) , Scientific notation, Vectors & components, Pugging into equations, *1-2 Step Algebra problems, STEM Review, Extra ordinary Review, Graphs of DVAJ, Basic Trigonometry, Atwood Machines.*

Vocabulary/Key Terms/Formulas:

Vectors, components, Truss, Cable Stayed Bridge, Atwood Machine, Tension, Compression, etc.

Special Events/News:

The Towers Are coming Nov. 22, 2011, will be our Tower competition for 2011.

Extraordinaries/Mastery Review Topics:

Summations, 15%, DVAJ, Trigonometry, Base 2.

NAME/ GRADE: _____ / _____ DATE: _____

HOMEWORK SHEET #27

ALL SAINTS DAY EVE- FIND A CHRISTIAN SCIENTIST OR ENGINEER OR INVENTOR OR ANYONE WHO HAS SHAPED TODAY'S WORLD AND CREATE A PREZI ABOUT THEM.

A. Expectation...

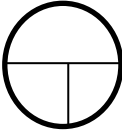
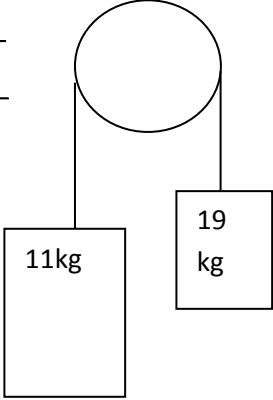
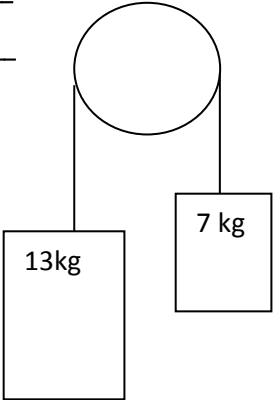
1. Get 3 photos (and if there is a you tube video of them find one) of your person and something they have done.
2. Write a "slide" or 2 (paragraph or 2)paragraph summarizing their background.
3. Write a "slide" or 2 (Paragraph or 2) Why do you think their Christian faith influenced them.
4. Use pictures and make a prezis with rotation, zooming , and a set path.
5. Email me the link of your Prezi (as well as to your parents as well.

How to get a Prezi Account...

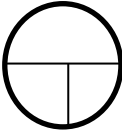
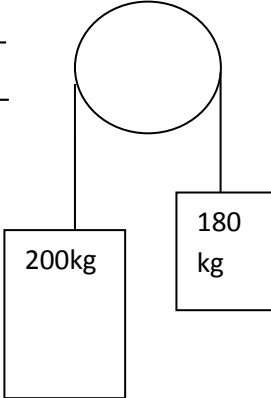
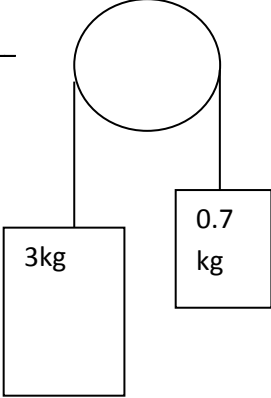
1. Go to Prezi.com
2. Click on the sign up button.
3. Scroll down and go to student/Teacher licenses.
4. Click on Edu Enjoy button for 500 Mb of content space and ability to keep your content private.
5. Use your parkside email to make an account.
6. Answer the questions they ask of you. School website: parksideca.org. Make sure you remember your user account info.
7. Once you have submitted your answers, they will send an email to your school account to confirm your account.

- B. Do 20 Scientific notation problems and make sure I am your coach... My email is mdixon@parksideca.org.
- C. You can do 20 more problems of your choice, but make sure they benefit you.

HMWRK #28
THE WEEK'S 15

<p><u>Kinematics</u></p> <p><u>Fill in</u></p> 	<p>1. Darius and Malitey run in opposite directions from Jamar who is stationary. Malitey runs at 5m/s, and Darius runs at 6m/s.</p> <p>A. How far is Malitey from Jamar after 10 seconds? _____</p> <p>B. How far is Darius from Jamar after 12 seconds? _____</p> <p>C. How far is Malitey from Darius after 15 seconds? _____</p>	<p>2. Duane and Jonathan have a 100m dash race.</p> <p>A. Duane twist his ankle and it takes him 12 seconds to finish the race. How fast was he moving? _____</p> <p>B. Jonathan finishes in 11 seconds, how fast was he traveling? _____</p> <p>C. Jonathan wins by how many meters? _____</p>	<p>3. <u>Make your own Kinematics problem... AND solve</u></p>
<p><u>Atwood</u></p>	<p>4.</p> <p>A. $A=$ _____</p> <p>B. $T=$ _____</p> 	<p>5.</p> <p>A. $A=$ _____</p> <p>B. $T=$ _____</p> 	<p>6. <u>MYO ATWOOD AND SOLVE</u></p>
<p><u>2nd Law</u></p>	<p>7.</p> <p>A force F_1 pushes on an object of mass 10 kg with a force of 150 N to the right. A force F_2 pushes on the same object with a force of 180 N to the left. What is the acceleration of the object?</p>	<p>8. A force F_1 pushes on an object of mass 20 kg with a force of 250 N to the right. A force F_2 pushes on the same object with a force of 370 N to the left. What is the acceleration of the object?</p>	<p>9. <u>Make your own 2nd Law problem... AND solve</u></p>
<p><u>Misc. incl. Lit Problems</u></p>	<p>10. $A+B=C$ Solve for B Solve for A</p>	<p>11. $A^2+ B^2=C^2$ Solve for C Solve for A</p>	<p>12. <u>Make your own literal problem and solve</u></p>

HMWRK #29
THE WEEK'S 15

<p><u>Kinematics</u></p> <p><u>Fill in</u></p> 	<p>3. Sihanne and Ana run in opposite directions from Rhemie who is stationary. Sihanne runs at 5m/s, and Ana (Aka AM) runs at 5.5m/s.</p> <p>D. How far is Ana from Rhemie after 10 seconds? _____</p> <p>E. How far is Sihanne from Rhemie after 12 seconds? _____</p> <p>F. How far is Sihanne from Ana after 20 seconds? _____</p>	<p>4. Terry and James have a 100m dash race.</p> <p>D. Terry twists his ankle and it takes him 13 seconds to finish the race. How fast was he moving? _____</p> <p>E. James finishes in 12 seconds, how fast was he traveling? _____</p> <p>F. James wins by how many meters? _____</p>	<p>4. <u>Make your own Kinematics problem... AND solve</u></p>
<p><u>Atwood</u></p>	<p>7.</p> <p>C. $A =$ _____</p> <p>D. $T =$ _____</p> 	<p>8.</p> <p>C. $A =$ _____</p> <p>D. $T =$ _____</p> 	<p>9. <u>MYO ATWOOD AND SOLVE</u></p>
<p><u>2nd Law</u></p>	<p>7.</p> <p>A force F_1 pushes on an object of mass 30 kg with a force of 150 N to the right. A force F_2 pushes on the same object with a force of 180 N to the left. What is the acceleration of the object?</p>	<p>8. A force F_1 pushes on an object of mass 250 kg with a force of 2500 N to the right. A force F_2 pushes on the same object with a force of 3700 N to the left. What is the acceleration of the object?</p>	<p>9. <u>Make your own 2nd Law problem... AND solve</u></p>
<p><u>Misc. incl. Lit Problems</u></p>	<p>10. $Ax + By = Cz$ Solve for B</p> <p>Solve for A</p>	<p>11. $Ax + By = Cx$ Solve for C</p> <p>Solve for B</p>	<p>12. <u>Make your own literal problem and solve</u></p>

