
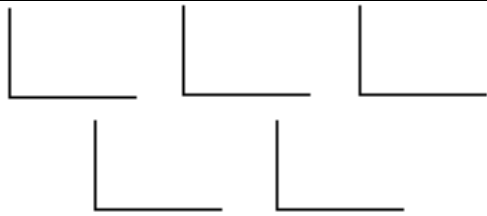

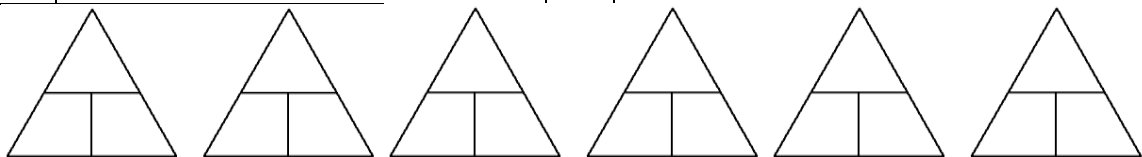


Pg	Variable	Name	Units	Example or Equation Used
	Graph Components			
	s			
	d			
	t			
	X			
	Xo			
	Xf			
	ΔX			
	V			
	Vo			
	Vf			
	ΔV			
	a			
	g			
	F			
	m			
	W (weight)			
	KE (E)			
	PE (U)			
	GPE			
	W (work)			
	P = Power			
	c = light speed			
	P			
	ΔQ			
	m			
	C			
	Cwater			
	Cice			
	Csteam			
	T = temperature			
	ΔT			
	Hof			
	Hov			
	T = period			
	f = frequency			
	λ wavelength			
	d _o			
	d _i			
	s _o			
	s _i			
	f (focal length)			
	V = voltage			
	R (Ω)			
	I			

Pg	Equations / Information	Pg	Equations / Information
	cm to m		grams to Kg
	m to Km		
	$Y = mx + b$ $m =$ $b =$ $R =$ $R \geq 5\%$ Five Percent Level of Significance		
	Motion Equations		Circular Motion Equations
	Force Equations		Friction Equations
	Energy Equations		
	Momentum Equations		
	Heat and Temperature Equations		Phase Change Diagram 
	Wave Equations		
	Mirror and Lenses Equations		
	Electricity and Circuit Equations		



Interactive Notebook Score Sheet

First Semester

Week Number	Notebook Score 0 – 2 (3)	Week Number	Teacher Signatures / Stamps	Special Assignment Name (Left Page Assignments) 0 – 4 (5) Usually	Score
1		1			
2		2			
3		3			
4		4			
5		5			
6		6			
7		7			
8		8			
9		9			
10		10			
11		11			
12		12			
13		13			
14		14			
15		15			
16		16			
17		17			
18		18			
Total		Total		Total	

Total Stamps x 3 = _____

Teacher Score: _____/100

Second Semester

Week Number	Notebook Score 0 – 2 (3)	Week Number	Teacher Signatures / Stamps	Special Assignment Name (Left Page Assignments) 0 – 4 (5) Usually	Score
1		1			
2		2			
3		3			
4		4			
5		5			
6		6			
7		7			
8		8			
9		9			
10		10			
11		11			
12		12			
13		13			
14		14			
15		15			
16		16			
17		17			
18		18			
Total		Total		Total	

Total Stamps x 3 = _____

Reflection Page: _____/30

Teacher Score: _____/100

THREE POINT SCORING RUBRIC (Notebook Check)	FIVE POINT SCORING RUBRIC (Special Assignments)
<p>3 Points - (a WOW product)</p> <ul style="list-style-type: none"> all of the requirements are evident and EXCEEDED the product is VERY neatly done and EXTREMELY well organized the product shows LOTS of creativity and is colorfully illustrated completed on time <p>2 Points - (What is EXPECTED)</p> <ul style="list-style-type: none"> the requirements are evident the product is neatly done and organized the product shows some creativity and is illustrated completed on time <p>1 Point – (One or More parts is missing)</p> <ul style="list-style-type: none"> few of the requirements are evident the product is fairly neatly done and partly organized the product shows little creativity and few illustrations completed on time <p>0 Points - (Does not meet Standards)</p> <ul style="list-style-type: none"> Unscorable or no product Lazier than a pig <p>WOW: Works Of Wonder must be an extremely superior product. Upon viewing by the class or teacher, a WOW that is NOT a WOW will cause the score to be dropped to a 1 for the person and the collaborative group.</p>	<p>5 Points - (a WOW product)</p> <ul style="list-style-type: none"> all of the requirements are evident and EXCEEDED the product is VERY neatly done and EXTREMELY well organized the product shows LOTS of creativity and is colorfully illustrated completed on time <p>4 Points - (What is EXPECTED)</p> <ul style="list-style-type: none"> all of the requirements are evident the product is neatly done and well organized the product shows creativity and is colorfully illustrated completed on time <p>3 Points – (Almost What is EXPECTED)</p> <ul style="list-style-type: none"> the requirements are evident (maybe 1 or 2 are missing) the product is neatly done and organized the product shows some creativity and is illustrated completed on time <p>2 Points – (Sort of What is EXPECTED)</p> <ul style="list-style-type: none"> the requirements are evident (maybe 3 or 4 are missing) the product is done and sort of organized the product shows little creativity and is illustrated completed on time <p>1 Point – (Two or More parts is missing)</p> <ul style="list-style-type: none"> MANY of the requirements are NOT PRESENT the product is VERY POORLY done and POORLY organized the product shows little TO NO creativity and THE illustrations IS POORLY DONE <p>0 Points - (Does not meet Standards)</p> <ul style="list-style-type: none"> Unscorable or no product Lazier than a pig

Study Buddies mdteachworth@sbcglobal.net teachworth.info go to **PHYSICS** link for class info

Name	Phone	E-mail

Needed Classroom Supplies

- Interactive Notebook – *Five Subject Spiral* (not a 3 ring binder) Notebook
- Writing Devices - Multicolored (4 colors minimum) – Set of Colored Pencils / Pens / Markers
- High Lighter (any color) – Several colors if possible
- Scientific Calculator (a phone calculator MAY NOT BE USED)
- Ruler or Straight edge and a Protractor

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Add Flip Pages after Page 317

Levels of Thinking

EASY Level 1: Basic Input / Gathering Information

Complete Count Match Name Define Scan
 Observe Describe Identify List Select Recite

MEDIUM Level 2: Processing Information

Compare Contrast Sort Distinguish Explain Why Infer Sequence Analyze
Synthesize Make Analogies

HARD Level 3: Creating Your Own Ideas

Evaluate Generalize Imagine Judge Predict If/Then Speculate
 Hypothesize Forecast Idealize Apply the Principle

DUFAS Problem Solving Method

Diagram - made to show the problem

Units - and variables listed and labeled

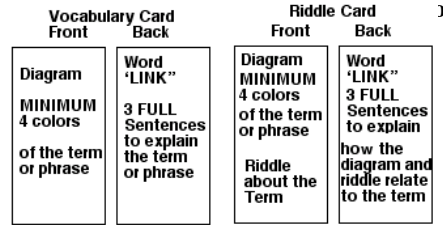
Formula/Equation - written and ready to use

Algebra - WORK shown with numbers and units

Solution - circled and identified

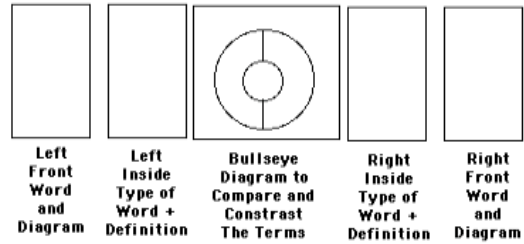
Fold It 1 – Vocabulary / Riddle Card

Front has a multi-color ILLUSTRATION representing the term.
 Back Top has the definition of the word
 A LINK (mnemonic or synonym)
 Three COMPLETE Sentences defining or using the word in context.



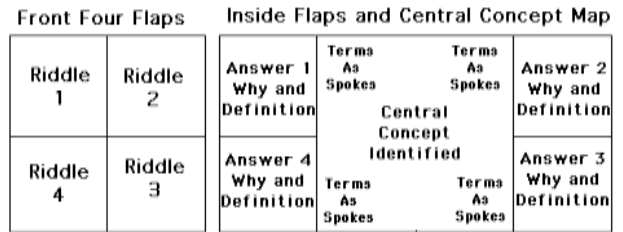
Fold It 2 – Compare and Contrast Two Terms

Tri-fold a piece of paper
 Left side–One TERM and a multi-color ILLUSTRATION
 Inside Left Side – The word, a definition of the word in student terms
 Right Side–One TERM and a multi-color ILLUSTRATION
 Inside Right Side – The word, a definition of the word in student terms
 Inside Center – A bulls-eye diagram to compare and contrast the two terms



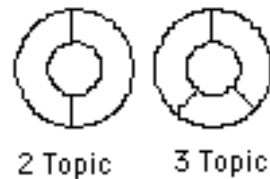
Fold It 4 – Concept Map

Tri-fold a piece of paper.
 Cut each flap in two (to form two 'doors'
 Place a riddle and a multi-color illustration on each flap
 Inside each flap, write the answer and the reason why
 In the central area, construct a CONCEPT MAP with the terms as spokes. Be sure to have the reason connecting the term to the central concept.



Bull's Eye Comparison

Compare and contrast two to three topics using a bull's eye diagram. Differences between the two topics belong on the outside sections. The similarities between the topics belong in the center bull's eye.
 A 4-color minimum ILLUSTRATION must show how the topics are related.
 A 3 – 5 sentence Explanation of how the illustration and similarities are related must be written underneath the illustration.



The Ring of Truth

Create a Ring of Truth for the assigned TERM or CONCEPT

1. Inner Circle – Write the TERM or CONCEPT being reviewed
2. Outer Circle – List specific facts, ideas and information about the TERM or CONCEPT
3. Outer Area – Write down common WRONG or INCORRECT ideas or information the Person On The Street (POTS) might have about the TERM or CONCEPT
4. Include a minimum four color diagram showing one main idea, fact or concept about the MAIN TERM or CONCEPT. Underneath the Ring of Truth, use at least 2 paragraphs to explain why the wrong ideas are incorrect and why people might have these misconceptions.



Grasping a Concept Imagine a hand with five digits around a palm. The palm holds the main concept or term. Each digit is one aspect of the concept, event, figure or topic.

- Trace your non-writing hand.
- In the palm area write the concept or term then make a simple sketch (four colors minimum) representing it.
- On each digit, write a vocabulary term, minor concept, figure, event or equation related to the term on the palm.
- At the end of each digit include a simple sketch (four colors minimum) representing what is on the digit.
- The thumb opposes the other digits, so the thumb term or concept should have a related but somewhat opposite or different slant than the other digits.
- A minimum three-paragraph explanation must be written. One paragraph must explain the sketch in the palm of the hand.
- Another paragraph must explain how the information on the digits relates to the term on the palm.
- The final paragraph must explain how the thumb information is related but is opposed to the other digits' information.

Lost or Found Make a Lost or Found poster about the assigned concept.

1. The poster must have a large (minimum 4 color) diagram representing the concept.
2. There must be a one to two paragraph description of the lost or found concept using the assigned vocabulary terms (high light the terms used).
3. Use one or two paragraphs explaining how the poster and description relate to the assigned concept.

Single Frame Cartoon Project The cartoon does NOT have to be funny

The Front of the Paper

- Single Frame cartoon (like a Farside)
- 4 colors minimum (Black and White DO NOT COUNT)
- Maximum 2 lines for a caption (speaking bubbles are okay, but not encouraged)

The Back of the Paper

- The Physics concept being shown is stated
- A paragraph explaining why or how the cartoon shows or addresses the concept stated is written

Box of Colors

As part of a campaign to make PHYSICS more color conscious, colored markers are given names describing both the color and a VARIABLE or PHYSICS CONCEPT.

1. Four basic colors must be used: Blue, Red, Green and Yellow
2. At least two additional colors must be added to the basic four.
3. Draw each marker with the name of the color and variable/concept on the label (Displacement Red and so on)
4. Write a 3 to 5 sentence description explaining how the color and the variable/concept make a natural fit.
5. Draw the outside of the box with a slogan to entice people to purchase this mix of colors and PHYSICS. A warning label must be included across the bottom of the box.

Tee Shirt Art

Design artwork for a tee shirt representing one of the assigned CONCEPTS, VARIABLES or TERMS

1. Front of Shirt must have artwork (minimum of 4 colors) showing the concept, variable or term.
2. Back of the shirt must have a 1 or 2 line 'cute or clever (but CLEAN)' saying using the concept, variable or term
3. A minimum of 2 paragraphs explaining how the artwork and saying get the PHYSICS idea across must be written.

Song or Rap

1. The song must use the assigned vocabulary or concepts. Remember: when presenting the song, be prepared to sing/play it out loud
2. There must be an illustration (4 color minimum) showing an understanding of the assigned topic and concepts.
3. There must be a 2 to 3 paragraph explanation after the song and illustration to explain how each covers and demonstrates the assigned concept and vocabulary.

Haiku Assignment

It has 3 lines and 17 syllables distributed in a 5, 7 and 5 syllable pattern.

17 syllables
5 syllables in the first line
7 syllables in the second line
5 syllables in the third line.

1. *It must follow the pattern and deal with any aspect of topic covered in class.*
2. *The section must have a border and artwork reflecting the topic - you pick the aspect you wish to emphasize in the haiku and artwork (Minimum of four colors).*
3. *There must be a short 3 to 5 sentence explanation telling how the Haiku shows an understanding of the assigned topic*

Tattoo or Body Art

You are in charge of developing a tattoo to allow the world to know about one of the assigned TOPICS or EQUATIONS.

1. The centerpiece of the tattoo must be a **slogan** representing the **concept or equation**.
2. The surrounding **artwork** (minimum of 4 colors) must demonstrate the **equation's concept in a real-life situation**.
3. The artwork must be suitable for all ages and appropriate for viewing in all social situations.
4. A **2 to 3 paragraph explanation** of how the artwork represents the equation or concept and the best location for the tattoo on the body must be written underneath the tattoo.

Equation Bookmark

1. Must be no more than 5 cm wide and 20 cm long.
2. Front must have a picture or illustration representing the main concept of the chapter (minimum of 4 colors)
3. Front must have the assigned equation
4. Back must have the assigned equation
5. Back must describe each variable in the equation
6. Back must identify the correct units for each variable in the equation
7. Back must explain how the front illustration shows the equation in use.

Limerick Assignment

General Guidelines For The Limerick Assignment

1. The form or pattern of limerick writing must be followed.
2. The limerick must be original and not copied from somewhere
3. The limerick must be G or PG-13 rated. Anything else gets you into trouble.
4. *The Physics topic or concept assigned must be addressed in the limerick*
5. *An illustration about the topic must follow the limerick (minimum of four colors).*
6. *A 3 to 5 sentence explanation of how the limerick and the illustration are related to the topic must be written after the illustration.*

The Limerick Pattern

1. A limerick has FIVE Lines.
2. The last words of the first, second and fifth lines rhyme with each other.
3. The first, second and fifth lines are longer than the third and fourth lines.
4. The last words of the third and fourth lines rhyme with each other.
5. The pattern of sounds follows the pattern: Da DUM da da DUM da da DUM

Physics Topic: Heat and Energy (from the APS website)

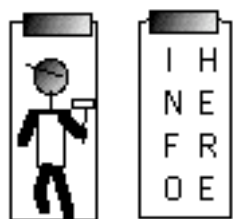
The physics test was quite near-o,
 And all thought everything was quite clear-o;
 "Why study this junk
 I'm sure I won't flunk,"
 But then he earned an Absolute Zero

Acrostic Poem

An acrostic poem, sometimes called a name poem, uses a word for its subject. Then each line of the poem begins with a letter from the subject word. This type of poetry doesn't have to rhyme.

1. The assigned term or word is written vertically (up and down)
2. Words, terms and concepts related to the term are written horizontally (back and forth) off the letter in the vertical term
3. An illustration representing the term or word must follow the acrostic poem.
4. A 3 to 5 sentences explaining how the horizontal words and terms AND the illustration fit the vertical term or word must follow the illustration.

People In Your Neighborhood Flip It



Front

Back

Select one of the assigned equations as a neighborhood. Now describe the people in the neighborhood. Each person has separate Flip It to be taped into the notebook.

1. Front of the Flip It – not more than 4 cm wide and 10 cm long
2. Front has a colored diagram of the person in appropriate work or leisure clothing.
3. Front has the name of the person (the variable must be part of the name) across the bottom of the Flip It.
4. The back has the name of the person across the top
5. The job or workplace of the person is described
6. How the job or workplace fits the person's name is described
7. How the job helps the neighborhood (the equation) to operate and solve problems.

Clothing Line

Your love of PHYSICS and *startling fashion sense* has you as the owner of a company offering a clothing line named after one of the assigned PHYSICS CONCEPTS.

1. Describe one item from the clothing line and how it represents the PHYSICS CONCEPT.
2. Make an illustration (minimum of 4 colors) of the article of clothing with the logo advertising the PHYSICS CONCEPT. One portion of the logo must use or apply the concept as part of the illustration.
3. Use at least 3 paragraphs to describe how the name of the clothing line will help it sell, how the illustration shows the PHYSICS CONCEPT and how wearing the clothing would help a student learn the Physics behind the concept.

Toy Design

Apply your knowledge of fun and PHYSICS to design the hottest and best selling toy of the season. It must be able to fit into a standard backpack. The toy must apply one of the assigned PHYSICS CONCEPTS and not cause serious bodily injury as part of normal use. As part of the campaign to promote sales the following information must be provided.

1. What is the name of the toy?
2. What is the basic PHYSICS CONCEPT used when playing with the toy?
3. What are the most fun features of the toy?
4. What age group is the toy designed to reach?
5. How will playing with the toy help teach PHYSICS?
6. Make an illustration of the toy being used (minimum of 4 colors) by a happy consumer.
7. Use at least 2 paragraphs to describe the slogan to sell the toy. Part of the slogan must contain an everyday application applying the toy's PHYSICS CONCEPT.

Urinal Usage - Public Service Announcement

You are charged with writing a public service announcement that could be posted on a bathroom wall on one of the assigned CONCEPTS.

1. The PSA must be NO LONGER than 30 seconds when read aloud.
2. The CONCEPT must be identified at least twice during the PSA.
3. The PSA must include at **least 5 vocabulary terms or phrases** from the current unit.
4. Each vocabulary term or phrase must be **high lighted**.
5. After the reading of the PSA, there must be a **one-sentence declaration of the organization responsible** for developing the PSA.
6. A billboard or sign illustration for the side of a bus advertising the PSA must be designed (minimum of four colors) and drawn.
7. Write a **2 to 3 paragraph long explanation** of how and why the PSA would influence people to better understand the main CONCEPT.

Radio Commercial to Review Homework - Thirty Seconds Of Fame And Glory

Write a 30 second (maximum) RADIO commercial advertising the assigned concepts or vocabulary terms.

1. The one idea or concept considered to be most important should be the main message of the commercial.
2. The commercial MUST use at least 5 vocabulary terms or phrases from the current unit (high light each term).

3. A description of any sound effects or music that would accompany the commercial may be listed in parenthesis and highlighted inside the body of the commercial.
4. An illustration showing a printed advertisement to accompany the radio campaign must be drawn (use at least 4 colors).
5. An explanation of how both the radio commercial and the printed advertisement meet the key points of the assignment must be written.

Designing A Magazine Ad

Design a magazine advertisement on one of the assigned CONCEPTS or EQUATIONS.

1. The ad is for a favorite magazine of teenagers or young adults.
2. The standard header or footer of the magazine must be placed above or below the advertisement.
3. The advertisement must be no more than a half page in length and use a minimum of 4 colors.
4. There must be at least one paragraph of claims or selling points on the advertisement.
5. Below the advertisement, use at least 3 paragraphs to explain why the magazine was selected, how the artwork gets across the concept or equation use and why the claims or selling points help explain the importance or develop the understanding of the concept or equation.

Pet Name

You are the proud owner of a new and unique pet and have honored it with one of the assigned PHYSICS VOCABULARY OR CONCEPTS for a name.

1. What type of animal is the pet?
2. What is the name of the pet?
3. Explain how the name of the pet fits its behavior.
4. Describe ONE trick you will have the pet learn to represent and show off its name.
5. Make a drawing of the Pet showing off the trick representing its name (minimum of four colors).
6. Describe, using at least 2 paragraphs, how the drawing and trick represents the CONCEPT.

Trip to the Circus

Binky the Clown gives advice about a Science Concept using specific Vocabulary terms in relation to an act or circus attraction.

- A diagram using at least four colors must show Blinky the Clown or an assistant demonstrating the concept must be drawn.
- A three to five sentence explanation by Blinky the Clown written so a fourth grader could understand the Science

Concept and using the Vocabulary terms (high light the terms) must be written.

- A four to six sentence explanation of how the diagram and the explanation showing an understanding at a high school level must be written.

Letter to the Editor

1. The letter must be from 2 to 4 paragraphs in length.
2. The letter must contain the assigned topic or vocabulary terms.
3. Each use of the assigned topic or vocabulary terms must be HIGHLIGHTED.
4. YOU must state an opinion about the topic.
5. At least 5 specific facts must be used to support the opinion.
6. An illustration of the topic must be made after the letter.
7. A minimum of 4 colors (black and white do not count) must be used to make the illustration.
8. A 3 to 5 sentence explanation of how the letter and illustration are related to the topic must be written.

Vehicle Name

As part of design team for a new model vehicle, you must select a name for the model. The name must reflect the vehicle's abilities and one of the assigned PHYSICS CONCEPTS

1. What is the model name of the vehicle?
2. Explain how the model name of the vehicle fits its abilities.
3. Write the advertising slogan to be used to represent and show the vehicle.
4. Create a magazine advertisement (minimum 4 colors) showing the vehicle and emphasizing its abilities and name.
5. Explain in at least 2 paragraphs how the slogan and magazine advertisement represent the PHYSICS CONCEPT.

Band Buzz

Design a four-color minimum Logo for a Band named after the assigned Physics Concept
List at least THREE song titles representing assigned Physics Concept and the specific Vocabulary Terms relating to the unit
A 5 to 7 sentence explanation of how the logo relates to the concept must be Written.
A 5 to 7 sentence explanation of how the song titles relate to the the concept and vocabulary terms must be written.

Newspaper article

Write a 2 to 3 paragraph long newspaper article suitable for the school newspaper about the assigned PHYSICS CONCEPT or TOPIC.

1. The article must contain the H5W (How, Who, What, When, Where, Why) about the concept or equation.
2. The article must have at least two interesting facts people could use in common day conversations.
3. There must be a graphic or illustration (minimum of 4 colors) representing the concept or equation being applied.
4. There must be a caption of 2 to 3 sentences explaining the graphic.

Fables

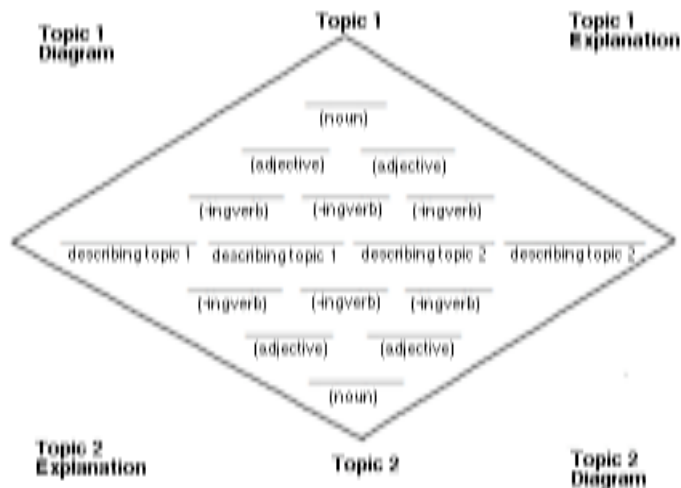
A fable is a short story with a moral or point to the story.

1. The short story is generally 2 to 3 paragraphs in length.
2. The **key concept** or **vocabulary** assigned in class must be used in the fable.
3. The key concept or vocabulary terms must be **HIGHLIGHTED** in the fable.
4. The moral or point to the story is added **AFTER** the last paragraph.
5. After the moral or point to the story is stated, there must be an **illustration** showing the key concept (minimum of four colors).
6. After the illustration there must be an explanation (2 paragraph minimum) of how the story, moral/point and illustration shows the assigned Physics concept or principle.

Diamanti (Diamond Poem) Special Assignment

A diamanti poem compares and contrasts two terms. The format is shown in the diagram.

The top lines describe topic 1. The bottom lines describe topic 2. The MIDDLE line has two words for topic 1 and two for topic 2. There must be a minimum four-color diagram representing each topic and an explanation of how the terms and diagram relates to each topic.



Rhyming Poem -

The poem must use the assigned vocabulary terms or concepts. There must be a title reflecting the major concept of the poem. There must be at least 5 couplets (two lines rhyming with each other) in the poem. At least 5 terms from the vocabulary list above must be used. The terms must be highlighted. There must be a diagram with at least one vehicle, one animal and one vegetable and using four colors. There must be at least 2 paragraphs explaining how the poem and diagram demonstrate the assigned topic.

Don't Break The Bank



- At \$.10 a word, you have a SET DOLLAR AMOUNT (stated in the homework) to spend on a message to explain the Assigned Concept.
- A four-color **illustration** must show the key points of the Assigned Concept.
- Two paragraphs of 3 – 5 sentences must be used to explain how the **illustration** and **message** are each related to the Assigned Concept.

Cinquains

A cinquain is a five-line poem written about a single concept, object or idea. The format is a short, unrhymed poem of twenty-two syllables and five lines. The five lines contain 2, 4, 6, 8 then 2 syllables. Each line is supposed to deal with a specific aspect of the cinquian’s topic.

Raindrop
Moisture, Falling
Sustain, Nourish, Cleansing
Teardrop, Diamond, Dropping, Earthward
Dewdrop

The first line consists of two syllables / 1 word (the title).
The second line consists of four syllables / 2 words (describes the title).
The third line consists of six syllables / 3 words (states an action).
The fourth line consists of eight syllables / 4 words (expresses a feeling)
The last line consists of two syllables / 1 word (another word for the title).

1. **The Cinquain must be written on the assigned topic.**
2. **Follow the format of syllables and words per line.**
3. **An illustration of the concept or topic must be made after the cinquain.**
4. **A minimum of 4 colors (black and white do not count) must be used in the illustration.**
5. **A 3 to 5 sentence EXPLANATION of how the cinquain and illustration relate to the assigned topic must be made.**

ONE-PAGER

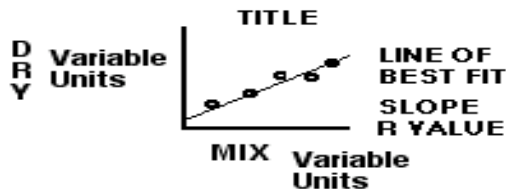
A ONE-PAGER is a written and graphic interpretation of a reading presented on a SINGLE sheet of paper. It should highlight the thoughts and understanding of the information. It will be a reference for reviewing the information. ONE ENTIRE SIDE should be covered with information. Use only ONE side of the paper. Your Name and Period are written on the BACK of the paper.

Required Information:

1. A title describing the Major Concept
2. The specific Chapter or Unit being covered
3. A prediction based upon the information read – (I think ... because ...)
4. A **large** DIAGRAM with a BORDER – Multiple Colors must be used to reflect major concepts and key information. The border must reflect aspects of the unit, concepts, vocabulary or real life applications.
5. A TEN WORD caption for the diagram must be written below the diagram. The caption must summarize the diagram’s key concept.
6. A quote from the textbook must be written. The quote must pertain to a concept or aspect of the topic. The quote must emphasize a key point to be remembered or used to explain the major concept.
7. A summary of at least ten sentences explaining the major concepts of the reading or unit must be written.
8. At least five key vocabulary terms must be used and highlighted in the summary/explanation.
9. An explanation of a word or idea to demonstrate an understanding of the information must be included.
10. There must be a QUESTION BOX. Inside the Question Box must be at LEAST two (2) higher-level questions for further study (look at page 6 of the Notebook for Question Prompts). There must be an explanation of WHY each question was selected after each question is written.
11. *Something creative (your choice) showing or explaining how the information relates to some aspect of your life.*

Graphs and DRY MIX

Dependent variable
 Relies upon manipulated
Y-axis
Manipulated variable
Independent
X-axis



Last Open Entry – Left Page

Physics Index – Word Meaning Location Page One

Pg	Word / Term	Pg	Word / Term	Pg	Word / Term
	Absolute Number		Conservation of Momentum		Freezing
	Absolute Zero		Conservative		Friction
	Acceleration		Conservative Energy Forms		Fusion
	Accuracy		Constructive		g
	Amplitude		Contact Force		Gas
	Amps or Amperage		Convection		Generator
	Angular Acceleration		Convex Lens		Global Warming
	Angular Displacement		Convex Mirror		GPE
	Angular Momentum		Correlation Coefficient		Graph
	Angular Velocity		Counted Number		Gravity
	Antinode		Crest		Green House Effect
	Armature		Cricket Graph		Hang Time
	Average Speed		Current		Heat
	Balanced Forces		Deposition		Heat Energy
	Ballistic Pendulum		Destructive		Heat Flow
	Barrier		Diffraction		Heat of Fusion
	Base level		Direct Relationship		Heat of Vaporization
	Battery		Direction		Hooke's Law
	Beats		Displacement		Human Error
	Boiling		Distance		Hydrogen Fuel Cell
	Boundary		Doppler Effect		IC Integrated Circuit
	Box and Whiskers		Efficiency		Ideal Spring
	Brushes		Elastic Collision		Image
	Bunsen Burner		Electricity		Impact
	Calories		Electrolytic Capacitor		Impulse
	Calorimeter		Electromagnetic		Incident Wave
	Capacitor		Electron		Inelastic Collision
	Celsius		EM Wave		Inertia
	Center of Curvature		Energy		Instantaneous Velocity
	Centripetal Acceleration		Entropy		Interference
	Centripetal Force		Equibrant		Internal Forces
	Change in Momentum		Equilibrium		Internal Work
	Change of Phase		Equipment Error		Inverse Relationship
	Closed System		Erect Image		Inverse Square Rltshp
	Cnsrvtn oAngular Momentum		Evaporation		Inverted Image
	Coefficient of Friction		Explosion		Joules
	Collision		External Forces		Kelvin
	Combination Circuit		External Work		Kilogram
	Commutator		F=ma		Kilowatt-hour
	Compression		Farad		Kinetic Energy
	Compression Wave		FBD		Kinetic Friction
	Concave Lens		Field Force		L.E.D.
	Concave Mirror		Field Magnet		Lense
	Concurrent		Fission		Lenz's Law
	Condensation		Focal Length		Liquid
	Conduction		Force		Longitudinal
	Conservation of Energy		Free Fall		μ (mu)

Last Open Entry – Right Page

Physics Index – Word Me		Page Two		Page Two	
Pg	Word / Term	Pg	Word / Term	Pg	Word / Term
	Magnet		Radius		Van der Waals Force
	Magnetic Field		Rarefaction		Variable, Dependent
	Magnitude		Real Image		Variable, Independent
	Mass		Reference System		Vector
	Mean		Reflected Wave		Velocity
	Measured Number		Reflection		Virtual Image
	Mechanical Wave		Refraction		Voltage or Volts
	Median		Renewable		Watts
	MKS		Resistance		Wavelength
	Mode		Resistor		Weight
	Moment of Inertia		Resistor Color Code		Whimhurst Generator
	Momentum		Resonance		Work
	Negative Charge		Resultant		Zero Line
	Net Force		Right Hand Rule (angular)		5% Rule
	Neutral Charge		Right Hand Rule (electrical)		Variable
	Neutron		Rotational Kinetic Energy		X, Xo, Xf
	Newton		Scalar		delta X ΔX
	Newton-second		Series Circuit		V, Vo Vf
	No Image		Signficiant Digit		delta V ΔV
	No Relationship		Simple Harmonic Motion		a
	Node		Solid		t, delta t Δt
	Non-conservative		South Pole		g
	Non-conservative Energy Form		Specific heat		m
	Non-renewable		Speed		F
	Normal		Speed of Sound		c
	Normal Force		Speedometer		T
	North Pole		Squared Relationship		p momentum
	Object		Standing Wave		KE or E
	Odometer		Static Equilibrium		GPE or U
	Ohm		Static Friction		Q, Delta Q, ΔQ
	Ohm's Law		Stirling Heat Engine		C
	Open System		Sublimation		ΔT
	Parallal Circuit		Tangential Velocity		Hof
	Parallax		Temperature		Hov
	Pendulum		Tension		$^{\circ}C$
	Period		Terminal Speed		K
	Plasma		Thermodynamics		wavelength λ
	Positive Charge		Thermometer		f frequency
	Potential Energy		Torque		f focal length
	Power		Torsion		do
	Precise		Total Energy		di
	Precision		Transmitted Wave		So
	Pressure		Transverse		Si
	Principle Axis		Trough		R ohms Ω
	Proton		Unbalanced Forces		V volts
	Quartile		V=x/t		W watts
	Radiation		Van der Graaf Generator		P power

Adult Input Page – Required Once a Week – Due during the Notebook Check

To the Adult – this page will allow your son or daughter to better learn physics. When a person teaches another, both learn, but the ‘teacher’ often learns much more than the ‘student.’

- The task of your son or daughter is to discuss and teach a concept covered in class with you.
- You should write down one or two sentences explaining what YOU LEARNED from the discussion and tutoring. Not just that it took place. Without your writing what was learned, full credit for the ‘teaching’ will not be earned by the student.

Week # Date	What was LEARNED – This must be a sentence about something the Adult and Student discussed and the Adult learned – <i>Written by the ADULT</i>	Adult Signature
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ONE A WEEK, THAT’S ALL THAT’S ASKED
INSIDE BACK COVER – ADD **FLIP PAGES** AS NEEDED