

Chemistry Assignment Sheet

Chapter 17 and Energy Project

This unit will introduce the concept of energy and how energy is transferred in physical changes, chemical changes, and nuclear changes. There will be some handouts on energy and readings out of your text book. You will complete a series of quizzes and a research project in which you will create a power point on an energy source.

Daily Assignments

Date	What will we do in class today?	What assignment should I do for homework tonight?
1/9 1/10	1. Go over Final Exam 2. Course Evaluation 3. Introduction to Energy <ul style="list-style-type: none"> • Gummi Bear Demonstration • Review the Four Fundamental Forces 	1. Read Handout 2. Complete Question #2 on Page 121 3. Read pp. 505- 507 in your textbook.
1/11 1/14	1. Review the Four Fundamental Forces of Nature 2. Introduce Types of Energy <ul style="list-style-type: none"> • Kinetic Energy <ul style="list-style-type: none"> a. Heat b. Temperature • Potential Energy <ul style="list-style-type: none"> a. Relate to gravitational force b. Relate to electromagnetic force 3. Introduce Energy Transfers <ul style="list-style-type: none"> a. System and Surroundings b. Physical Changes c. Endothermic & Exothermic d. Potential Energy Diagrams 4. Demonstration – Energy Transfers in a bag. Baking Soda, Calcium Chloride, Indicator,	1. Complete Question #1 on page 121 of handout 2. Page 504 Complete the Inquiry Activity Procedure Define the System and Surroundings. Create a grid that includes the Change in KE & PE for the rubber band and for your lip or forehead.
1/15 1/16	1. Introduce Lab Activity – Heating Curves using Lab Pro Interface 2. Lab Activity – Heating Curve using the Lab Pro Interface, Computers and Temperature Probes	1. Read pages 520-524 in your textbook. This reading may be hard to understand. A mole is just a certain number of atoms. For water one mole has a mass of 18 grams. So every time you read mole or molar just think 18 grams of water. 2. Fill in all parts of the lab

		activity on Heating Curves.
1/17 1/18	<ol style="list-style-type: none"> Debrief Lab Activity on Heating Curves <ol style="list-style-type: none"> Review Heat/Temp. Label Graph together Writing a conclusion: <ol style="list-style-type: none"> Examine Data Draw Conclusion Cite specific data to support your conclusion Sources of Error Ways you could improve the experimental design New Questions Energy Transfers continued <ol style="list-style-type: none"> Energy Diagrams 	<ol style="list-style-type: none"> Rewrite your answers to the lab activity on the heating of ice-water. Write your answers with good detail. Redraw or cut out the temp. vs. time graph on a sheet of paper and record your answers on the sketch. Your answers should be word processed and represent your best work. Read pp. 514 – 518 Skip Sample Problem 17.3. Prepare for Quiz on Conservation of Energy. (Energy transfers for physical changes & movement in gravity)
1/22 1/23	<ol style="list-style-type: none"> Turn in Lab Activity Quiz on Energy Transfers Do Lab Activity – Energy Transfers during Chemical & Physical Changes Hand out Cooling Curve Lab 	<ol style="list-style-type: none"> Complete the particle modeling, Energy flow, and potential energy diagram for Systems #1, #2, #3, & #4 of the Lab Activity. Read pp. 518 – 519 Write a description of the energy transfers in this Solar Power Plant. Discuss the change in KE and PE for each part of the power plant
1/24 1/25	<ol style="list-style-type: none"> Turn in Lab Activity Report Debrief the two lab activities- focus on the energy transfers between system and surroundings. <ul style="list-style-type: none"> Finish giving guidelines for writing a conclusion Collect two lab activities. Pass out COOLING CURVE LAB Helpful hints for writing your lab report 	<ol style="list-style-type: none"> Write a Title, Purpose, HYPOTHESIS and Procedure for the Cooling Curve Lab. This is to be word processed and complete. Draw and label your graph. Use the directions for writing a formal lab report! <i>No late work will be accepted for partial homework credit this time.</i> If you do a good job you get a 2; if you don't, you get a 0 for homework.

1/28 1/29	I will be checking your Title, Purpose, Hypothesis , and Procedure (this needs to be the final copy. No rough drafts or late work will be accepted for homework credit. This is either a 2 or a 0). 2. Do the Cooling Curve Lab	1. Write a conclusion for the cooling curve lab. Include how different parts of the graph indicates the changes in KE and PE of the water in the test tube. Use the directions for writing a formal lab report! 2. Organize Lab & have it already stapled AND ready to turn in at the BEGINNING of the period. <i>No exceptions for any reason!</i> 3.
1/30 1/31	1. Turn in lab reports. These will be returned so that you can then do a Peer Review/ Edit of Conclusion 3. Introduce Calorimetry!	1. Revise conclusion if necessary. 2. Study for quiz over Energy Conversions.
2/1 2/4	1. Quiz over Energy Conversions 2. Introduce Energy Project: Pick your project out of the hat!	1. Read pp. 508 – 513 2. Energy Project: Begin your research!
2/5 2/6	MEET IN THE LIBRARY! DON'T COME TO THE CLASSROOM. Energy Project Research	1. Continue Research on Energy Project • Look at the questions asked on the handout given in class. Your power point project should be designed to answer these questions. • Be sure your slides give the detail required for an outside reader to be able to answer the questions. • As you find information record source information for your bibliography slide.
2/7 2/8	MEET IN THE COMPUTER LAB. DON'T COME TO THE CLASSROOM. Continue work on Energy Projects Start your ppt in class. PLAN AHEAD. This is a long term project. <i>LATE PROJECTS FOR ANY REASON WILL BE PENALIZED.</i>	Hooray!!! No Homework weekend!!! Have fun!!! Get Outside!!!!!!

<p>2/11 2/12</p>	<p>MEET IN THE COMPUTER LAB! DON'T COME TO THE CLASSROOM. Work on Powerpoint Presentations At the end of this period you should have created slides and be well on your way to finishing.</p>	<p>Work on your ppt presentation; <i>there is a huge penalty if this is late for any reason. Your classmates are counting on you. You will have had 3 1/2 class periods (this includes one extra tomorrow we built in for students who were absent) and 2 nights of homework to complete this. That represents 7 hours you have been given to work on this.</i></p>
<p>2/13 2/14</p>	<p>MEET IN THE COMPUTER LAB! DON'T COME TO THE CLASSROOM. Finish ppt. It is due at the end of this period. <i>No exceptions. You will put your ppt on a flashdrive or on a CD. Flashdrive is preferable!</i></p>	<p>No Homework! Enjoy your 4 day weekend.</p>
<p>2/20</p>	<p>Calorimetry Lab Activity</p>	<p>REMEMBER: THIS IS A TAKE HOME TEST. YOU MAY NOT DISCUSS THESE QUESTIONS OR ANSWERS WITH ANYONE. PERIOD.</p> <p>Go to the Power Point Kiosk link on the chemistry homepage (or the Unit 6 Syllabus)</p> <p>You will use the powerpoints of your choice to answer the Energy Transition Projects questions.</p> <p>REMEMBER: THIS IS A TEST. YOU MAY NOT DISCUSS THESE QUESTIONS OR ANSWERS WITH ANYONE. PERIOD.</p>
<p>2/22</p>	<p>Unit 6: Dimensional Analysis <i>Fieldtrip</i> <i>Start to use the Unit 6 Syllabus!</i></p>	<p>Happy Minicourse!!!!</p>
<p>3/4</p>	<p>Dimensional Analysis Lab</p>	<p>TBA</p>

