

Name: _____

Class: _____

Date: _____

H.W. - Unit 2 Study Guide

This Study Guide is due Tuesday, November 3rd. You will need to visit www.MrAscience.com to answer most of the questions!

Topics:

1. Mystery Mix
2. Protons, Neutrons, & Electrons
3. Lewis Dot Structures
4. Ionic and Covalent Bonding
5. Elements, Compounds, & Mixtures
6. Playing Doctor

				October 1: Take 5s H.W. Finish Take 5s	October 2: Intro to Chemistry H.W. None
October 5: Lab Procedures & Chemical I.D. H.W. Write Paragraph	October 6: Mystery Mix Day #1 H.W. None	October 7: Mystery Mix Day #2 H.W. Myst. Mix Elements	October 8: Mystery Mix Day #3 H.W. None	October 9: Mystery Mix Day #4 H.W. Mini-Essay	
October 12: Columbus Day	October 13: Protons and Electrons H.W. None	October 14: Neutrons H.W. Element Math	October 15: Introduce Atom Modeling H.W. None	October 16: Atom Modeling Competition (Mr. A absent) H.W. None	
October 19: Lewis Dot Diagrams H.W. None	October 20: Ionic Bonding H.W. None	October 21: Covalent Bonding H.W. Real-World Bonding	October 22: The Element Dating Game H.W. None	October 23: Elements, Compounds, & Mixtures H.W. Checkpoint Quiz	
October 26: Playing Doctor: Introduction H.W. None	October 27: Playing Doctor: Simulation H.W. None	October 28: Review Carousel (Interrupted Day) H.W. None	October 29: Playing Doctor: Begin Reports H.W. None	October 30: Playing Doctor: Finish Reports H.W. Finish Reports	
November 5: Review Day H.W. Finish Study Guide	November 3: Unit 2 Test H.W. None				

Day-by-Day Recap:

Go to www.MrAscience.com and visit the entry for each day. After reading it, answer the questions to the right.

<u>October 2:</u> Intro to Chemistry	Of the three examples we discussed, which one had to do with... (i) ...combining atoms? (ii) ...splitting atoms? (iii) ...discovering new compounds?
<u>October 5:</u> Lab Procedures & Chemical I.D.	What were the four methods of Chemical I.D. mentioned in the article (Page 203)?
<u>October 6:</u> Mystery Mix Day 1	Of those four methods, which did you use on Day 1 of the Mystery Mix Lab?
<u>October 7:</u> Mystery Mix Day 2	Choose one of our nine white substances. Give its common name, chemical name, and chemical formula.
<u>October 8:</u> Mystery Mix Day 3	Which combination of chemicals did Thomas and Jake test in the video? What was the result of their test?
<u>October 9:</u> Mystery Mix Day 4	Other than the Mystery Mixture, all of the nine white substances were _____. (elements, compounds, or mixtures)
<u>October 13:</u> Protons and Electrons	How many electrons can be held (at most) in each of the first four electron shells?

<u>October 14:</u> Neutrons	<p>“To figure out the number of neutrons in any normal atom, you...”</p>
<u>October 15:</u> Intro to Atom Modeling	<p>Draw a complete model of a Sodium atom, below. Include protons, neutrons, and electrons.</p>
<u>October 16:</u> Atom Modeling Competition	
<u>October 19:</u> Lewis Dot Diagrams	<p>Draw the Lewis Dot Structure of a Sodium atom, below.</p> <p>#somucheasier</p>
<u>October 20:</u> Ionic Bonding	<p>On Molly’s worksheet, what were the only two elements that formed an ionic bond?</p>
<u>October 21:</u> Covalent Bonding	<p>Summarize the story of Henry and Fiona in scientific terms.</p>
<u>October 22:</u> Element Dating Game	<p>What two elements bonded in the video? What type of bond did they form?</p>

<u>October 23:</u> Elements, Compounds, and Mixtures	Give an example of an element, a compound, and a mixture from the picture on the website.			
<u>October 26:</u> Playing Doctor: Introduction	How much has human life expectancy increased since 1840?			
<u>October 27:</u> Playing Doctor: Simulation	In the video, what was one mistake that a student made?			
<u>October 28:</u> Review Carousel	Go back to Review Carousel Question #6, where you drew a molecule of ammonia. How did you know that ammonia would bond covalently?			
<u>October 29:</u> Playing Doctor: Begin Reports	Write the correct prescriptions for the eight patients below.			
	Mike Prozkurski	Henry Allen	Austin Jones	Riley Moeykens
<u>October 30:</u> Playing Doctor: Finish Reports	Helen Shapiro	Sarah Clarkson	John Ferro	Lucas Morrison
<u>November 2:</u> Review Day	Go back to the front page of the study guide. Which topic has given you the most trouble during Unit 2? <i>Now go back through the website and study it extra!</i>			