

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

## *H.W. - Unit 4 Study Guide*

Study Guide is due Tuesday, February 2<sup>nd</sup>. You must visit [www.MrAscience.com](http://www.MrAscience.com) to answer most of the questions!

### Topics:

- |                     |                |                  |                      |
|---------------------|----------------|------------------|----------------------|
| 1. Gravity          | 3. Tides       | 5. Eclipses      | 7. Book for Columbus |
| 2. Sun, Earth, Moon | 4. Moon Phases | 6. Lunar Craters |                      |

<b><u>January 4:</u></b>  Gravity Notes  H.W. None	<b><u>January 5:</u></b>  Gravity Drop Lab Day #1  H.W. Finish Post-Lab	<b><u>January 6:</u></b>  Gravity Drop Lab Day #2  H.W. Finish Post-Lab	<b><u>January 7:</u></b>  Sun, Earth, Moon Models  H.W. None	<b><u>January 8:</u></b>  Astronomy Myths  H.W. None
<b><u>January 11:</u></b>  Tides  H.W. None	<b><u>January 12:</u></b>  Moon Phases  H.W. None	<b><u>January 13:</u></b>  Eclipses  H.W. Skywatch	<b><u>January 14:</u></b>  Spring and Neap Tides  H.W. None	<b><u>January 15:</u></b>  Letters to the Past  <a href="#">H.W. Checkpoint Quiz</a>
<b><u>January 18:</u></b>  MLK Day	<b><u>January 19:</u></b>  Review Carousel (Miss D + E – Chorus)  H.W. None	<b><u>January 20:</u></b>  Crater Debate: Reading Paraphrase  H.W. None	<b><u>January 21:</u></b>  Crater Debate: Design Lab  H.W. None	<b><u>January 22:</u></b>  Crater Debate: Perform Lab  H.W. None
<b><u>January 25:</u></b>  Crater Debate: Perform Lab  H.W. Finish Lab Report	<b><u>January 26:</u></b>  A Book for Columbus  H.W. None	<b><u>January 27:</u></b>  A Book for Columbus  H.W. None	<b><u>January 28:</u></b>  A Book for Columbus  H.W. Finish Books	<b><u>January 29:</u></b>  B.F.C. Quiz  H.W. Study Guide (due 2/2)
<b><u>February 1:</u></b>  Review Day  H.W. Finish Study Guide	<b><u>February 2:</u></b>  Unit 4 Test  H.W. None			

## **Day-by-Day Recap:**

*Go to [www.MrAscience.com](http://www.MrAscience.com) and visit the entry for each day. After reading it, answer the questions to the right.*

<p><u>January 4<sup>th</sup>:</u> Gravity Notes</p>	<p>Rank the six planets on Erica's worksheet in order from having the <b>most gravity</b> to having the <b>least gravity</b>.</p>
<p><u>January 5<sup>th</sup>:</u> Gravity Drop Day #1</p>	<p>On the first day of the Gravity Drop lab, how was the fall of the metal marble different from that of the plastic marble?</p>
<p><u>January 6<sup>th</sup>:</u> Gravity Drop Day #2</p>	<p>On Day 2 of the Gravity Drop lab, we graphed Top Speed vs. Time of Fall. What was the slope of the line <u>supposed to be</u>?</p> <p>Why didn't our results come out perfectly?</p>
<p><u>January 7<sup>th</sup>:</u> Sun, Earth, Moon Models</p>	<p>"But the true scale of our solar system defies common wisdom. In reality, if the sun were shrunk to the size of a softball..."</p>
<p><u>January 8<sup>th</sup>:</u> Astronomy Myths</p>	<p>Of the nine myths, which one was your favorite?</p>

<p><u>January 11<sup>th</sup>:</u> Tides</p>	<p>In the fancy animation that Mr. A spent way too much time making, Massachusetts appears to have high tides when...</p>
<p><u>January 12<sup>th</sup>:</u> Moon Phases</p>	<p>Rewatch the video posted on the website. Name the three members of Orange Cluster who can be seen/heard during the video.</p>
<p><u>January 13<sup>th</sup>:</u> Eclipses</p>	<p>Watch the NASA video on eclipses. What type of eclipse was visible on August 11<sup>th</sup>, 1999?</p>
<p><u>January 14<sup>th</sup>:</u> Spring &amp; Neap Tides</p>	<p>According to Mr. A's animation, what are the definitions of spring tides and neap tides?</p>
<p><u>January 15<sup>th</sup>:</u> Letters to the Past</p>	<p>Go back to your favorite myth (from Jan. 8<sup>th</sup>) and explain why that myth is incorrect.</p>

<p><u>January 19<sup>th</sup>:</u> Review Carousel</p>	<p><i>Click on the PDF link and review the eight Review Carousel questions.</i></p>
<p><u>January 20<sup>th</sup>:</u> The Crater Debate</p>	<p>Summarize Dr. Green and Dr. Shoemaker's theories.</p>
<p><u>January 21-23<sup>rd</sup>:</u> Design Your Own Craters Lab</p>	<p>Summarize the conclusions you and your partner made after you finished your Craters Lab.</p>
<p><u>January 26<sup>th</sup>-29<sup>th</sup>:</u> A Book for Columbus</p>	<p>Go back through your B.F.C. Quiz (Page 416) and do a quick Take-5 below. Correct any of the first five questions you got wrong...</p>
<p><u>February 1<sup>st</sup>:</u> Review Day</p>	<p><i>Of the seven topics listed on the front page, which one do you need to study the most tonight?</i></p>