ALL POWERPOINTS ARE POSTED TO THE CLASSROOM WEBSITE:

1. The Big Bang is NOT an explosion IN space, but __________ space. Explain why? _____________________________
   When did the Big Bang occur? ___________________________

2. What is the universe? _____________________________ What is the future of the universe?
   __________________________________________________________________________________
   __________________________________________________________________________________

3. What galaxy are we a part of? ________________________ What defines “our solar system”?
   ____________________________________________________________________________________ How did our solar system form?
   ____________________________________________________________________________________ On a piece of scrap paper, draw a series of images that show the formation of our solar system:

4. How old is the Earth? _____________
   How do we know the age of the Earth and the solar system? _______
   How did the Earth form? _____________________________ Where did the Earth get its atmosphere?
   ____________________________________________________________________________________
   How did the layers of Earth form? ________________________________________________

5. Do ALL heavy objects have HIGH densities? YES or NO (circle) Explain: _____________________________
   ____________________________________________________________________________________

   What is the formula for density? _________
   Why does it have both grams and mL as its unit, why not just one or the other?
   ____________________________________________________________________________________

6. List the order of the 4 Eras from oldest to youngest. (the Precambrian can represent both the Archaen and Proterozoic)
   ____________________________________________________________________________________

7. What separates the Eras in the geologic timescale (i.e. what causes one Era to end and the next to begin)?
   ____________________________________________________________________________________ When did the Earth form an oxygen atmosphere? _____________________________ How did this occur?
   ____________________________________________________________________________________ At what point did life just “explode”?
   ____________________________________________________________________________________

8. What was the cause of the Permian extinction? _____________________________
9. How about the Cretaceous-Tertiary (K-T) boundary (end of the Mesozoic)? ________________________________________________________________

10. Explain what is believed to have caused the Pleistocene Ice Age. ________________________________________________________________

11. What is the age of a rock that contains 12.5% of its original parent material that has a ½ life of 20 million yrs? ___________ yrs. What would be the age if it contained 6.25%? _____yrs

What is half-life? ________________________________________________________________

How do we use it to determine the age of rocks? _____________________________________

12. There will be a LAB portion on the test. Be able to both EXPLAIN and PERFORM a procedure finding the density of a substance.

13. Use the TALUNK method to graph data.

*** PROBLEM: Does spending more time at the mall affect how much money you spend at the mall?

<table>
<thead>
<tr>
<th>Hours in Mall</th>
<th>10</th>
<th>8</th>
<th>9</th>
<th>3</th>
<th>1</th>
<th>2</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dollars spent</td>
<td>96</td>
<td>70</td>
<td>80</td>
<td>20</td>
<td>10</td>
<td>35</td>
<td>50</td>
<td>70</td>
<td>75</td>
<td>90</td>
<td>20</td>
<td>60</td>
</tr>
</tbody>
</table>

Title: ___________________________

X-axis label: ___________________________

Y-axis label: ___________________________