<table>
<thead>
<tr>
<th>Points</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title stated accurately and clearly</td>
<td>Title is accurate, brief, easily read and invites interest.</td>
<td>Title is clear, brief, easily read.</td>
<td>Title is unclear, does not accurately describe activity or is illegible</td>
<td>No title given</td>
</tr>
<tr>
<td>Method/steps stated clearly using bullets.</td>
<td>Explains method/ steps clearly using bullets. Easy to follow.</td>
<td>Method/steps could be a little more clear.</td>
<td>Method/steps very hard to follow; unclear.</td>
<td>Method/steps not listed</td>
</tr>
<tr>
<td>Rational for method used</td>
<td>States clearly why the group used the steps listed.</td>
<td>Somewhat unclear as to why specific steps were used.</td>
<td>Demonstrated confusion as to why method/steps were used.</td>
<td>No explanation given as to why method/steps were used</td>
</tr>
<tr>
<td>Calculations shown clearly</td>
<td>Clearly, accurately shows calculations related to steps</td>
<td>Calculations could be shown more clearly relating to steps.</td>
<td>Calculations difficult to follow, inaccurate, or do not justify result.</td>
<td>No calculations shown.</td>
</tr>
<tr>
<td>Results stated, relates to objective</td>
<td>Clearly states results and relates result to objective (our sun is one of 200 billion in our galaxy). Shows this in an impactful way.</td>
<td>Results stated and related to objective.</td>
<td>Results unclear or did not relate result to objective.</td>
<td>No results stated or did not relate result to objective.</td>
</tr>
</tbody>
</table>
Supplemental Worksheet/Questions

(For teacher or student help)

1. Count how many lentil beans will fit into one cubic centimeter (one milliliter). __________

   Using some more lentil beans, repeat step 1 two more times.

   __________   __________

2. Find the average of the above three numbers: __________ This is the number we will use for number 6 below.

3. How many centimeters are in one meter? __________

4. What is the formula for the volume of a cube? ________________________________

5. Using the information from numbers 3 and 4 above, calculate how many cubic centimeters are in one cubic meter:

   There are _________________________ cm³ in one cubic meter

6. To find the number of lentil beans in one cubic meter, refer to the answer to #’s 3 and 5.

   There are ____________________________ lentil beans in one cubic meter.

*Do you think this number is close to 200 billion?

7. Write out the number 200 billion: ________________________________
8. To find how many cubic meters will equal 200 billion lentil beans, take 200 billion and divide it by your answer from number 6.

It will take a volume of approximately _________________________ m³ to contain 200 billion lentil beans.

9. Using a meter stick or metric tape, find the volume of the classroom in cubic meters.

__________________ m³

10. Comparing the numbers from #’s 8 and 9, how many classrooms would it take to contain 200 billion lentil beans? _________________

**Finally, look at the one lentil bean representing our sun!!**