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

Supplemental Worksheet/Questions

(For teacher or student help)

1. Count how many lentil beans will fit into one <u>cubic</u> 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 _____ cm^3 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!!