

SCIENTIFIC NOTATION PROJECT

Due Date: _____

Integrated Algebra



1) Do some research and find some interesting data

Choose 5 facts that interest you. Three (3) facts must have a number of 1,000 or greater associated with them. Two (2) facts must have a number less than 1 associated with it.

For example:

- a) The Earth weighs 6,588,000,000,000,000,000,000,000 tons.
- b) More than 500, 000, 000 people are registered users on Facebook.
- c) In 1993 there were approximately 64,000,000 cats in America.
- d) The human body contains 70,000 miles of blood vessels.
- e) The weight of an alpha particle is
.000,000,000,000,000,000,000,000,006645 kilograms

2) Use both standard form and scientific notation

Convert the number from your fact into scientific notation. For example:

- a) The Earth weighs 6.588×10^{24} tons.
- b) More than 5×10^8 people are registered users on Facebook.
- c) In 1993 there were approximately 6.4×10^7 cats in America.
- d) The human body contains 7.0×10^4 miles of blood vessels.
- e) The weight of an alpha particle is 6.645×10^{-27}

3) Synthesize and communicate your cool data

Compile all of your data onto one sheet of paper (or more if needed).

- a) Write each fact with the number in standard form.
- b) Write each fact with the number in scientific notation.
- c) Make it fun to look at; add some art or drawing or anecdote or some fun thing to entertain your audience.
- d) Include all your sources of your info. For example, state the URL of any webpage you used or the name of any book you referenced.
- e) Check out my website for some neat web pages and/or find some that you find interesting!

This project is worth 12 points! See the rubric I'll be using to grade them (over).

Scientific Notation Project Rubric



Name: _____

1] Student has 3 facts with numbers of 1,000 or greater AND 2 facts with a number less than 1.

(1 point each = 5 pts)

Points Earned: _____

2] Student has converted 5 facts from standard form into scientific notation correctly.

(2 points each = 10 pts)

Points Earned: _____

3] Student has made each fact interesting! (1 point each = 5 pts)
(i.e. you included art or a story or the like.)

Points Earned: _____

4] Overall Project's Creativity/Originality:

Exceptional (4 pts)	Satisfactory (3 pts)	Unsatisfactory (2 pts)	Poor (1 pt)
Project is neat, organized, and easy to understand. Project is complete with strong evidence of effort.	Project is neat, organized, and easy to understand. Project is complete with some evidence of effort.	Project is either messy, disorganized, or hard to understand. Project is either incomplete or does not show strong evidence of effort.	Project is messy, disorganized, and hard to understand. Project is incomplete and does not show effort.

Points Earned: _____

SOME WEBSITES WITH INTERESTING FACTS



<http://pages.prodigy.net/jhonig/bignum/indx.html>

(Random Facts)

http://www.chiff.com/a/turkey_census.htm

(Fun Thanksgiving Day Facts)

<http://www.chiff.com/a/fun-facts-fourth.htm>

(Fun Fourth-of-July Facts)

<http://www.chiff.com/a/back-schoolnumbers.htm>

(Fun Back-to-School Facts)

<http://www.chiff.com/a/christmas-fun-facts.htm>

(Fun Holiday Facts)

http://www.forbes.com/2008/03/05/richest-people-billionaires-billionaires08-cx_lk_0305billie_land.html

(Richest People - 2008)

http://www.associatedcontent.com/article/306778/fun_facts_about_mcdonalds.html

(Fun Facts About McDonalds)

<http://content.usatoday.com/sports/football/nfl/salaries/teamresults.aspx?team=21>

(NFL Salaries)

<http://content.usatoday.com/sports/baseball/salaries/default.aspx>

(MLB Salaries)

<http://content.usatoday.com/sports/hockey/nhl/salaries/default.aspx>

(NHL Salaries)

<http://content.usatoday.com/sports/basketball/nba/salaries/default.aspx>

(NBA Salaries)

http://www.forbes.com/lists/2006/53/Compen_Salary.html

(Entertainer Salaries)