Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Due:\_\_\_\_\_\_\_\_\_\_

Unit Analysis Study Guide:

You will need computer access to watch the video. You will need this study guide, a pencil, and your calculator. Use the study guide for your notes. Then go to the webpage for our class and click the link for the Unit Analysis Vodcast. The spaces in the tables are for you to take notes on definitions and examples.

Unit Analysis:

|  |  |  |
| --- | --- | --- |
|  | Definition | Example |
| Unit Analysis  (a.k.a. dimensional analysis) |  |  |
| Conversion Factors |  |  |

List some conversion factors you know (try to come up with 10 standard measures):

For example:  \*\* write the factors in fraction form with labels.

**Please return to the vodcast.**

Using the multiplication method:

A car traveled 60 miles in 2 hours. How many feet per second was the car traveling?

First convert the hours to seconds.

Then convert the miles to feet.

Then reduce to a unit rate



Now you try it:

The average American uses 580 lbs of paper per year. Find the number of lbs of paper the average American uses in a month (use 30 days or 4 weeks) and in a week.

Go to the class webpage and respond to the homework prompts and submit by 10pm the night before the due date. Bring study guide to class for the due date. Homework Done! ☺