**Scientific Notation- Explained (5:13) and Example (1:47)**

<http://www.youtube.com/watch?v=WwmJ5nMmigQ&feature=plcp>

<http://www.youtube.com/watch?v=-vomqiURUgA&feature=fvwrel>

(or search Veritasium Scientific Notation)

1. How many zeroes are after the 2 when describing the sun?
2. What do use to make writing large (and small) numbers easier?
3. What does \_\_\_\_\_#2 take advantage of?
4. 102 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

103 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

104 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

1. What pattern do you see developing in #4?
2. How do you write the mass of the sun in scientific notation?
3. How many zeroes come after the decimal point when describing the mass of a proton?
4. 10-1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

10-2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

10-3 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

1. What does an exponent tell you?
2. What is the mass of a proton in scientific notation?
3. What is the challenge question?
4. (Scientific Notation- Example video) Show your work for how to calculate.

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