

**Lesson on The Math of the Sun  
Note to Teachers**

**Grade Level** - 5th grade.

**Approximate time** - one to two class periods.

**Skills practiced** - reading for information and meaning, reading and writing out numbers, changing units, and categorizing information.

**NYS Standards covered** - Number and Numeration, Operations, and Measurement.

**Note to Teachers:** This is a sample unit of an activity that can be done in grade 5. Like the SUN web page, there are pages with beautiful pictures of each planet. Students could actually choose a planet to study on the web for a project.

Here's the site that contains the nine planets:

A Multimedia Tour of the Solar System

<http://seds.lpl.arizona.edu/nineplanets/nineplanets/>

For a list of how to name large numbers:

## Names of Large Numbers

from <http://www.marin.cc.ca.us/~jerome/ma02002.htm>

thousand	= $10^3$	= 1,000
million	= $10^6$	= 1,000,000
billion	= $10^9$	= 1,000,000,000
trillion	= $10^{12}$	= 1,000,000,000,000
quadrillion	= $10^{15}$	= 1,000,000,000,000,000
quintillion	= $10^{18}$	= 1,000,000,000,000,000,000
sextillion	= $10^{21}$	= 1,000,000,000,000,000,000,000
septillion	= $10^{24}$	= 1,000,000,000,000,000,000,000,000
octillion	= $10^{27}$	= 1,000,000,000,000,000,000,000,000,000
nontillion	= $10^{30}$	= 1,000,000,000,000,000,000,000,000,000,000
decillion	= $10^{33}$	= 1,000,000,000,000,000,000,000,000,000,000,000
undecillion	= $10^{36}$	= 1,000,000,000,000,000,000,000,000,000,000,000,000
duodecillion	= $10^{39}$	= 1,000,000,000,000,000,000,000,000,000,000,000,000,000
tredecillion	= $10^{42}$	
quattuordecillion	= $10^{45}$	
quidecillion	= $10^{48}$	
sexdecillion	= $10^{51}$	
septendecillion	= $10^{54}$	
octadecillion	= $10^{57}$	
novemdecillion	= $10^{60}$	
vigintillion	= $10^{63}$	

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