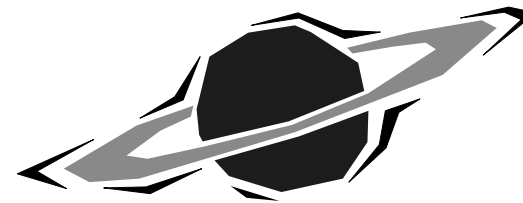


Junior Stargazers . . . Activity #1

# "TOILET PAPER SOLAR SYSTEM"



**QUESTION:** How far apart would the planets be if we could shrink the size of the Solar System?

**TRY THIS:** Unroll the toilet paper and count the number of squares from the end. We'll say that the Sun is at the end of the toilet paper. Where would the other planets be? Use the marker and mark the positions of the other planets. Our scale is 10 million miles per square of toilet paper. For older kids, you might have them create their own scale . . .but make sure you have enough toilet paper!

<u>Planet</u>	<u>Distance from the Sun</u>	<u>#sheets of Toilet Paper</u>
Mercury	36,000,000 miles	3.6 sheets
Venus	67,230,000	6.7
Earth	92,960,000	9.3

<b>Mars</b>	<b>141,700,000</b>	<b>14.1</b>
<b>Jupiter</b>	<b>483,700,000</b>	<b>48.4</b>
<b>Saturn</b>	<b>885,200,000</b>	<b>88.5</b>
<b>Uranus</b>	<b>1,781,000,000</b>	<b>178.1</b>
<b>Neptune</b>	<b>2,788,000,000</b>	<b>278.8</b>
<b>Pluto</b>	<b>3,660,000,000</b>	<b>366.0</b>

**QUESTION: Can you figure out what our scale is in this model?**