LT: I can describe the scale of the universe using models and the concept of light years	
Name:	TG:
The Universe: The V	NG SPACE ast Reaches of Space nt-Year
Distances are so great in space that a speci light-year. This sounds like a measurement distance. By definition a light-year is the di calculate the distance of one light-year, you year and then multiply that number by the know of, as it travels at an incredible 186,0	stance that light travels in one year. To u determine the number of seconds in a speed of light. Light is the fastest thing we
Your job is to calculate the value of one	light-year.
Calculate the number of seconds in one yea	ar.
Calculate the number of miles, or kilometer number of seconds in a year by 186,000 m	
Exceeds: Write the values in scientific notat	ion (for example: x 10 ⁹)
Now that you know how many miles or kilo distance of these objects (round light-year	
1. The closest star to Earth other than t	the sun is 4.3 light-years away.
2. The Andromeda galaxy is 2.2 million	ı light-years away from Earth.
3. The diameter of the Milky Way galaxy	is 100.000 light-vears.