

Name:

Student Number:

Astronomy, Worksheet 1 (pages 74-77)

The Universe is defined as: _____.

Most of the Universe is _____ and _____.

Circle the correct answer: A light year is the [$\rightarrow \rightarrow$ **DISTANCE** $\leftarrow \leftarrow$ time]
that light travels in one year inside a vacuum. A perfect vacuum is 100% empty space, just like William's brain! 1 light year is about 9.5 trillion km.

Write 9,461,000,000,000 km in scientific notation: _____.

The Universe is _____ years old.

A galaxy is a system of millions or billions of _____, together with _____ and _____, held together by _____ attraction.

If the Milky Way is a _____, the Universe is the distance from Kobe High School to Kobe Port Tower.

How many star systems are there in the Milky Way Galaxy? _____ What is the name of our star? _____ How old is our star? _____.

Besides Earth, there are lots of other things in our star system. The sun, other planets, dwarf planets, comets, and asteroids. Comets are _____.
Asteroids are _____.

About how many Earths make up the diameter of the sun? 10^1 10^2 10^3 10^4
Please (Do Do Not) touch the sun.

Nuclear Fusion: The atoms in the center of a star are packed so _____ that their _____ are joined together, fusing into heavier elements. Hydrogen _____ to make Helium. Every atom that is heavier than Hydrogen or Helium was made by _____.