



Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Space Lesson 1

Bang  
fastest

edge  
galaxies

empty  
Universe

light-years  
expanding

Traveling  
stars

The \_\_\_\_\_ is everything we can touch, feel, sense, measure, or detect. It includes living things, planets, \_\_\_\_\_, galaxies, dust clouds, light, and even time. Before the birth of the Universe, time, space, and matter did not exist.

The Universe contains billions of \_\_\_\_\_, with each galaxy containing millions or billions of stars. The space between the stars and galaxies is largely \_\_\_\_\_.

The Universe is incredibly huge. It would take the \_\_\_\_\_ plane more than a million years to reach the nearest star to our Sun. \_\_\_\_\_ at the speed of light (300,000 km per second), it would take 100,000 years to cross our Milky Way galaxy alone.

No one knows the exact size of the Universe, because we cannot see the \_\_\_\_\_ – if there is one. All we do know is that the visible Universe is at least 93 billion \_\_\_\_\_ across. (A light-year is the distance light travels in one year – about 9 trillion km.) The Universe has not always been the same size.

Scientists believe it began in a Big \_\_\_\_\_, which took place nearly 14 billion years ago. Since then, the Universe has been \_\_\_\_\_ outward at very high speed.