**Origin of Life**

**Big Bang Theory**

-The big bang theory is the most \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ scientific theory of our universe’s origin. The universe began \_\_\_\_\_\_\_\_ billion years ago as a highly concentrated tiny piece of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that exploded to form the starts and planets.

-Earth developed about \_\_\_\_\_\_\_\_ billion years ago. The first organisms appeared on Earth \_\_\_\_\_\_\_ billion years ago. Pangea=\_\_\_\_\_\_\_\_\_\_\_\_ continent. Earth was not “\_\_\_\_\_\_\_\_\_\_\_” in a single event Pieces of cosmic \_\_\_\_\_\_\_\_\_\_\_ were probably attracted to one another and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ together over 100 million years.

**Primordial Soup**

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ evolution. The theory that \_\_\_\_\_\_\_\_\_\_ came from a mixture of a chemical soup and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The early \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was made up of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, methane, hydrogen and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No oxygen!

**Spontaneous Generation**

-It was believed that life could \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from nonliving matter. This idea was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ later on when more experiments were conducted by Louis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Louis Pasteur’s Experiment**

-He placed \_\_\_\_\_\_\_\_\_\_ in two flasks-one that had a straight neck and one that had a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ neck. He \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the broth to kill any bacteria. Over a period of days, he noticed there was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ growth in the straight necked flask, but not the curved neck flask. The curved flask \_\_\_\_\_\_\_\_\_\_\_\_\_\_ dust and bacteria to get \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the curved part, but it never ended up in the \_\_\_\_\_\_\_\_\_\_.

**Primordial Soup: Miller-Urey Experiment**

Stanley Miller and Harold Urey put the chemicals found on early earth into a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and added a \_\_\_\_\_\_\_\_\_. Spark= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (helped to combine organic molecules). The combination produced \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – the building blocks of life.

**First Genetic Material: RNA**

-It is \_\_\_\_\_\_\_\_\_\_\_\_\_\_ than DNA-it is single stranded. It can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ chemical reactions, copy itself and make more of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. RNA had the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that gave rise to single celled \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Endosymbiosis**

-Endosymbiosis is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in which one organism lives \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the body of another. This could happen by consumption of an organism. Eukaryotic cells, mitochondria and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may have developed through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.