**Components of the Universe – You Tube**

**11:30 min.**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is everything that exists, including all matter and energy.**
2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is what everything is made of: solid, liquid, or gas.**
3. **\_\_\_\_\_\_\_\_\_\_\_\_\_ is what changes matter.**
4. **Most of the universe consists of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
5. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is empty space (no matter).**

**The Universe Contains:**

1. **\_\_\_\_\_\_\_\_\_\_\_ – large celestial object that is composed of gas and emits (give off) light.**
2. **\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ – a collection of celestial (heavenly) objects orbiting a star.**
3. **\_\_\_\_\_\_\_\_ – a giant structure containing dust, gasses, and hundreds of billions of stars.**
4. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – a large amount of gas and dust spread out in an immense (large) volume.**
5. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – chunks of rock and metal that are located between Mars and Jupiter in an area known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
6. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – a small piece of space debris (trash) that begins to burn up as it passes through the atmosphere, also known as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
7. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is in space, Meteor burns in atmosphere, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ when it lands on earth.**

**Learning about the Universe:**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_– a tool used to observe and learn about stars and other components in the universe.**
2. **Some telescopes are located on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_to collect radiation blocked by the Earth’s Atmosphere.**
3. **The most famous telescope, April 1990, called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_, is used to gather information about the universe.**
4. **A new telescope called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ Telescope will be launched October 2018 will be more powerful than the Hubble Telescope.**
5. **\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ – is unit of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ equal to the distance that light travels in one year.**
6. **\_\_\_\_\_\_,\_\_\_\_00,000,000,000 km or 5,876,625,373.61 mi**
7. **We use \_\_\_\_\_\_\_\_\_\_\_\_\_years to measure distances in the universe to simplify the measurement.**
8. **Other units used to measure distances in the universe includes parsecs and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
9. **Parsecs – about equal to \_\_\_\_\_\_\_\_\_\_\_\_\_\_ light years**
10. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ – the mean/average distance from the center of the Earth to the center of the Sun.**