Space Theories Notes!

* Theory
	+ A theory is an idea used to explain a situation or justify an outcome.
	+ Theories are \_ideas\_\_ that are backed up by facts
	+ Scientists usually \_agree\_\_\_ upon \_\_\_theories\_\_\_
	+ Theories \_\_\_\_can\_\_\_\_ change.
* Current Theory
	+ Scientists currently believe that our universe is approximately \_\_10\_ to\_15\_ billion years old.
	+ There have been many \_\_theories\_ over the years to explain the formation of the universe.
	+ Scientists currently use the \_\_Big Bang\_\_\_ Theory to explain

	the formation of the universe.
	+ The largest piece of evidence that supports the Big Bang Theory is the observation that most galaxies are moving away from eachother.
* Geocentric Model

	+ Ptolemy’s theory is known as the \_\_geocentric model\_\_\_\_\_
	+ He believed that the \_\_\_\_Earth\_\_\_ was at the center of the universe
	+ “Geo” means \_\_\_Earth\_\_\_
	+ “Centric” means center
	+ Evidence for the geocentric model

		- Gravity pulls all items towards the center\_\_\_\_\_

		of \_\_\_\_Earth\_\_.
		- Therefore the \_\_\_Earth\_\_ must be the \_\_\_center\_\_
		- When objects were \_\_\_\_thrown\_\_\_\_ in the air they

		landed in the \_\_same place\_\_\_.

			* If Earth was moving the object would fall in a different place.
* Heliocentric Model
	+ Copernicus’ theory is known as the \_\_\_Heliocentric theory\_\_

		- He believed that the \_\_\_\_sun\_\_\_\_ was a the \_\_\_\_center\_\_\_\_

		of the \_\_solar system \_\_\_\_
	+ “Helio” means \_\_\_Sun\_\_\_
	+ “Centric” means \_\_\_center\_\_\_\_\_
	+ Evidence for the heliocentric model

		- \_\_\_\_Galileo\_\_\_ made observations using \_\_telescopes\_\_\_
		to support Copernicus’ theory.
		- Galileo observed Venus had \_\_\_\_\_phases\_\_\_\_\_ like the moon.
		- This can only be explained if Venus is also orbiting the sun.