

Name _____ Section _____ Date _____

LT: I can explain why the formation of stars is the second threshold.

Do Now: Fill out the "K" & the "L" of the KWL chart

K What I know	W What I want to know	L What I learned

Part 1: Recap of the Big Bang

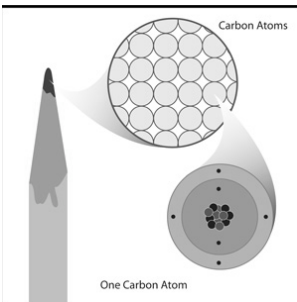
The Big Bang theorizes that 13.8 billion years ago, all the _____ in the universe was condensed into a point smaller than you can imagine. The ingredients that caused this to happen are _____. The Goldilocks Conditions that caused this to happen are _____. No one knows what caused this point to expand, but suddenly, it did. In a moment, space, time, and forces that govern our universe, like gravity, were created.

There's a lot we don't know about the Big Bang Theory, like _____. However, there is enough evidence, like _____ to prove that some major expansion of evidence occurred about 13.8 billion years ago. The Big Bang is considered an important threshold because _____.

Part 2: Video clip on the formation of stars

1. After the Big Bang, the universe _____.
 - a). Cooled
 - b). Heated up
 - c). Fabulous
2. What were the first two elements created after the Big Bang?
3. What draws atoms of hydrogen and helium together into clouds?
4. What happens as these clouds of hydrogen and helium get larger?
5. What is different about the Universe once the stars arrive?

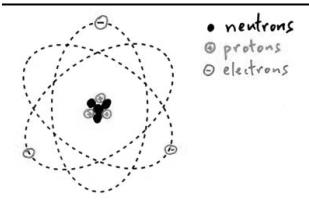
Part 3: Protons, Neutrons, and Electrons review



Everything in the universe, biotic or abiotic, is made of things called _____.

Atoms are made of _____, _____, and _____, which are in turn made of even smaller units called _____.

Protons have a positive charge and typically repel each other. Electrons have a negative charge and also repel each other. But a proton and an electron _____ one another and become stable. Hydrogen, one of the simplest elements in the universe, has one proton and one electron.



Sometimes, when temperatures are hot enough, protons can attach to one another. However, protons attaching to one another releases a little bit of energy, called _____. These photons emit _____, which we here on Earth see as _____.

