

Order of the Universe

Universe, Galaxy, Solar System, Stars, Planet

- Universe - **13.7** billion years-old - began with Big Bang
- Galaxy - a collection of billions of **stars**. ours is called the **Milky Way**. We are on the outside arm of this spiral galaxy.
- Solar System - a star that has planets and moons **orbiting** around it.
- Star - outer object in space that makes their own light. They do this through **nuclear fusion**.
- Planets - round objects that **orbit** around other.



Explain the following hierarchy from the smallest to the largest:

Saturn, our solar system, universe, Milky Way Galaxy, Saturn, our solar system, Milky Way Galaxy, universe, Milky Way Galaxy, our solar system, universe, Saturn, Saturn, Milky Way Galaxy, universe, our solar system.

Inexpended about 13.7 billion years ago.

Created the Universe

Big Bang Theory

Universe is still expanding and cooling from this explosion.

The universe began with an extremely dense concentration of matter from a single atom that exploded.

Evidence

Redshift - when we look at distant galaxies we see that their spectrum is shifting to the longer wave end (red). This means they are moving away from us.

Galaxy Recession Evidence The light from the Big Bang that happened 13.7 billion years ago has stretched out from expansion that they are enormous.

Blue Shift - waves that are moving away from us are longer because they are being stretched. When waves are moving towards us, they are shorter because they are being compressed.

Blue shift - moving towards us

Study Guide Earth Science Stars Answers

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