

STAAR Science Tutorial 34

TEK 8.8A: Stars, Galaxies and the Universe

TEK 8.8A: *Describe components of the universe, including stars, nebulae, and galaxies, and use models such as the Hertzsprung-Russell diagram for classification.*

Big Bang Theory of Universe Creation

- Scientists believe that the universe as we know it was created about 13.7 billion years ago in an event popularly known as the “big bang.” According to the big bang theory, all of the energy and matter of the universe was once packed into a single point of space called the singularity. When this singularity exploded, the outward expansion of the universe began, a process that continues today. The first matter to condense out of this cooling, expanding universe were sub-atomic particles. As the expansion continued, hydrogen atoms were able to form. Clouds of these atoms (nebula) began to be pulled together into stars about a billion years after the big bang. Large groups of these first stars formed the first galaxies. See Tutorial 36: Electromagnetic Waves for a discussion of the evidence supporting the big bang theory.

Universe Components

- The **universe** contains all of the matter and energy known by humans to exist. Some scientists have hypothesized that there may be parallel universes that we cannot detect, but there is no evidence to support their existence. The universe is known to contain billions of galaxies, though it is impossible to actually count the number.
- A **galaxy** is a very large group of stars held together by gravity. It may contain as few as a 100,000 stars, or as many as several trillion stars. Our Sun is one star in our **Milky Way Galaxy**, which may contain about 200 to 400 billion stars and measure about 100,000 light years in diameter. (A light year is the distance that light travels in one year, about 9.5 trillion kilometers.) While we have never seen our own Milky Way Galaxy from the outside, we do look out to the rest of the universe from a point about 25,000 light years from its center. On a dark, clear night away from city lights, the dense band of stars crossing the sky, which to the ancients looked like spilled milk, are the stars of the Milky Way Galaxy.
- Galaxies are usually grouped into **galaxy clusters**. Our own “local group of galaxies” contains about 30 galaxies which are gravitationally locked in an inward-moving spiral. The largest of these galaxies is the Andromeda Galaxy, a spiral galaxy located about 2.5 million light years from Earth, which may contain as many as one trillion stars.
- The three main types of galaxies are spiral, elliptical and irregular galaxies, each named from its general shape.

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George A. Khachatryan



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