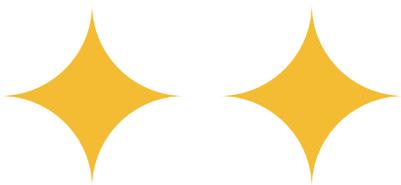




Revision Guides

Stars and Galaxies



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Introduction

In our previous tutorial, we learned about the universe and the big bang theory of how it all began.

Have you ever wondered about the objects we see in the Universe, stars, galaxies, asteroids, constellations. There are many objects that we know are there in the Universe.

Looking at the stars and galaxies helps us understand how our universe came into being and how it works.

Let's explore more about the stars and galaxies in our Universe.

Stars

Stars are huge balls of Hydrogen and Helium that are formed in galaxies from great big clouds of gas and dust over billions and billions of years. If you don't already know, all stars are sun's, just like our very own sun.

Within the infinite numbers of stars in the universe, there are 7 different classifications of stars currently.

That means there are 7 different types of stars temperature. O, B, A, F, G, K, M. These types of stars range in color from Blue to White to Orange to Red.

All different types and color stars have different temperatures, different sizes, different mass and different characteristics

Galaxies

Galaxies are huge collections of matter, possibly DARK MATTER, dust, gases and of course STARS, that are all bound together by gravity. All of these things are required to create planets, planets that also make up all galaxies.

Or so we think!

All of these things are vital in making up galaxies.

There are many different types of galaxies, and many different shapes and sizes of these galaxies.

These are all weird and wonderful places, with most of them yet to be discovered.

Milky Way

We live in the galaxy called the Milky Way. The Milky Way is part of cluster of around 3,000 galaxies called the Local Group.

The Milky Way is a spiral shaped galaxy and is estimated to be made up of around 300 billion stars.

Interesting Facts

Stars with the shortest lifespan are the largest.

The nearest star to us is about 4.2 light years away.
It would take around 70,000 years at a space
craft's fastest speed to reach.

The forming of a new star in a galaxy at very fast
pace is called a starburst.

The Sun is around 4.5 billion years old.

The closest galaxy to the Milky Way is Andromeda,
which is around 2.6 million light years away from us.

Many galaxies are more than 100,000 light years
across in distance. It takes over two hundred million
years for the sun to orbit the center of the galaxy.
This is called a galactic year.



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The Literacy Center is a 501(c)(3) non-profit organization dedicated to improving adult literacy and education, thereby strengthening our community.