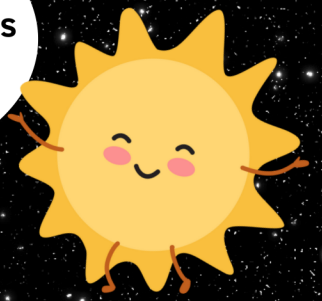


COSMOLOGY

TERMS

Get to know the terms cosmologists use for objects in the Universe

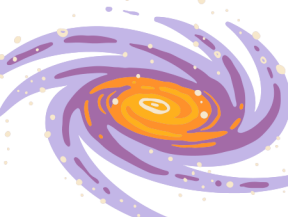


1



The Universe is everything. It is estimated to be about 13 billion years old. It is expanding as we read this.

2



Galaxies are dotted all over the Universe. They contain billions of stars circulating around black holes at their centres. Ours is called The Milky Way

3



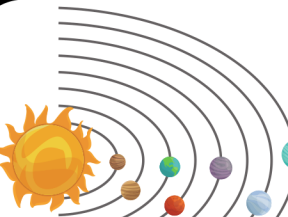
A star is a large ball of gas where the pressure inside their cores create nuclear reactions which make the star give off radiation and light.

4



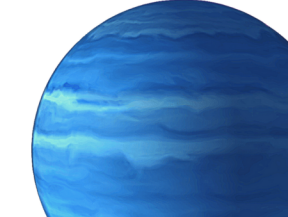
The Sun is our star. It is at the centre of our solar system . It is estimated to be about 5 billion years old and is 150 million km away from Earth.

5



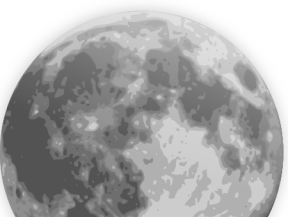
The solar system consists of 8 planets and their moons plus smaller bodies like asteroids, meteorides and comets all orbiting the Sun.

6



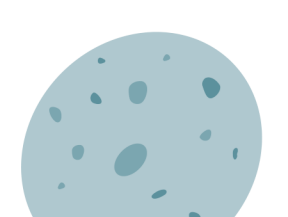
A planet is a large natural satellite of the Sun. It must be spherical and its orbit must not cross another orbit.

7



A moon is the natural satellite of a planet. The Earth has one. Mars has two, while Jupiter has 62.

8



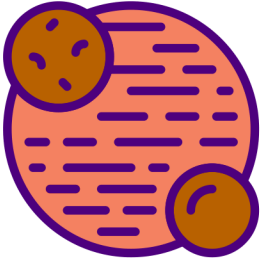
A Dwarf planet orbits the Sun, is nearly spherical but hasn't got enough gravity to clear its orbital path of rocks.

COSMOLOGY TERMS

Here are more
cosmological terms
to study.



9



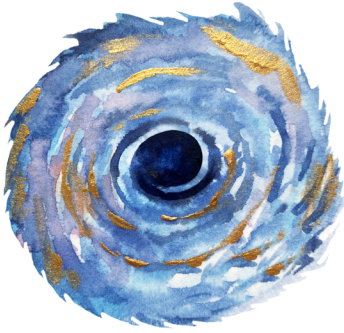
An exoplanet is a planet orbiting another star other than our Sun. They are hard to detect but quite a few have been found already. A famous one is Kepler 452-b

10



An asteroid is a rocky object that, though smaller than a dwarf planet, orbits the Sun. They have jagged irregular shapes and range in size from pebbles to 100s of kilometres in diameter

11



At the centre of our galaxy, and indeed other galaxies, there is a super massive object called a black hole. This term was first used by Princeton Physicist John Wheeler. It is so massive that light cannot escape its gravitational clutches! Hence black hole in space.

**DID
YOU
KNOW?**



**95% OF THE
UNIVERSE IS
INVISIBLE!**



It looks like we are alone!

There are
100,000,000,000,000,000,000,000 stars
in the Universe and perhaps a similar
number of planets but **WOW!** We are still
waiting for a signal from outer space!

The oldest objects!

Quasars are the oldest objects in the Universe. They are thought to be young galaxies found at the very edge of the known Universe.

They are extremely bright and emit enormous of radiation.

