

Galaxies and Stars

Galaxies

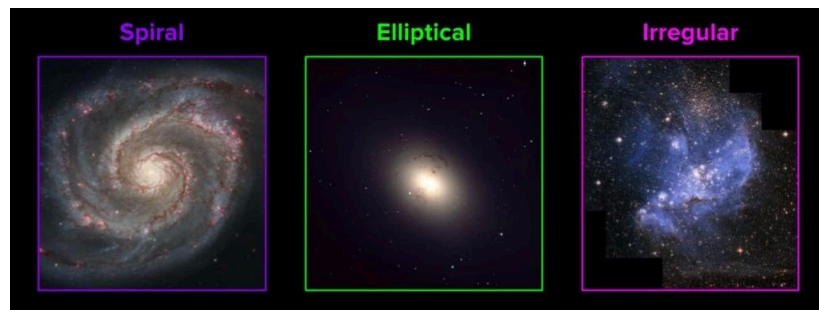
- very large
- groups of _____, dark matter, and radiation
- separated from us by huge distances!
- There are _____ of galaxies in the universe

Milky Way Galaxy

- _____ where earth exists.
- Our sun is 1 of _____ billion stars

There are different types of galaxies depending on their shape

- Spiral
- Barred
- Elliptical
- Irregular

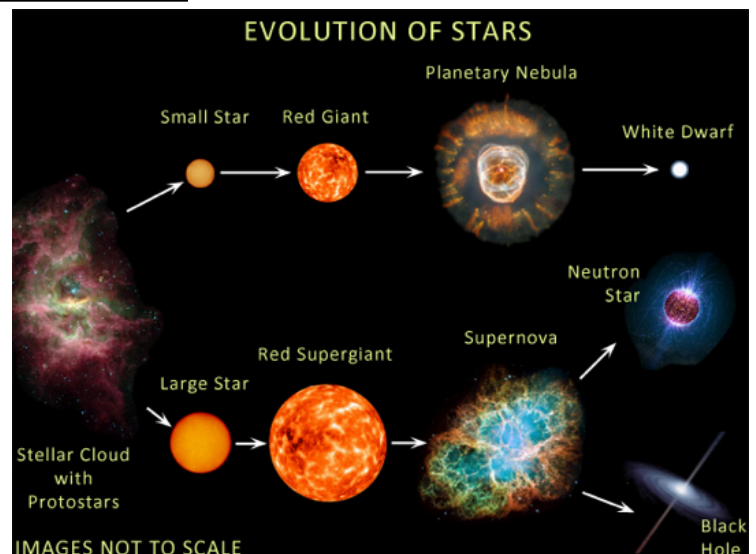


What are Stars

- Stars are large balls of _____ “burning billions of miles away”.
- look small because far away
- Many _____ than the Sun.
- The heat of the star is made by _____

Star Life

- The life of stars are _____ of years.



1. All stars start as _____ –clouds of dust and gases (H and He)
2. Mass pulls together
3. Turns into a hot, dense clump that produces energy – a protostar
4. Nuclear fusion takes place until all fuel used up
5. Once the energy is used up the star “_____”.

Star Classification

- Stars can be classified according to:
1. Colour: red (coldest) → orange → yellow → white → blue (hottest)
 2. Size: dwarf (smallest) → giant star → supergiant star

Black Holes

- If a _____ is Massive when it _____ it may _____ creating a black hole
- gravity pulls so much that even light can not get out.
- _____ is so _____ because matter has been squeezed into a tiny space.
- Every large galaxy contains a supermassive black hole at its center.
- Milky Way's black hole is called _____
- mass equal to about 4 million suns