

Stellar Birth

You and a partner are to produce a presentation for your peers on the process by which stars are formed.

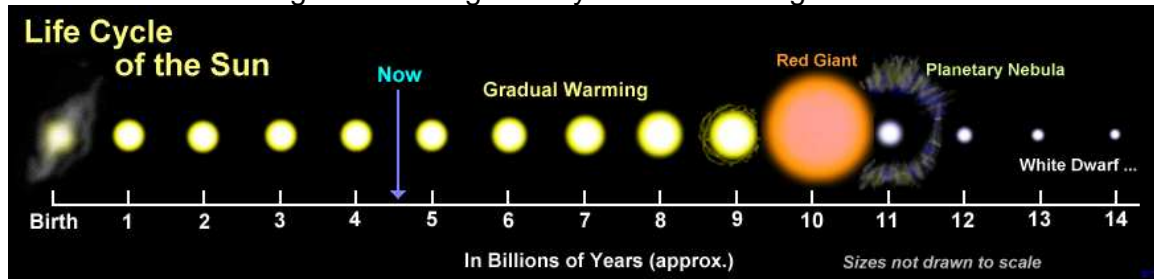
The stages or steps for stars like our sun to be formed are:

Stage 1 – Interstellar Cloud

- Accumulation of gas, dust, and plasma
- Composition analyzed electromagnetic radiation
- Huge- some up to 10 par-secs

Stage 2 – Collapsing Cloud Fragment

- 2nd stage- increasing density within shrinking cloud

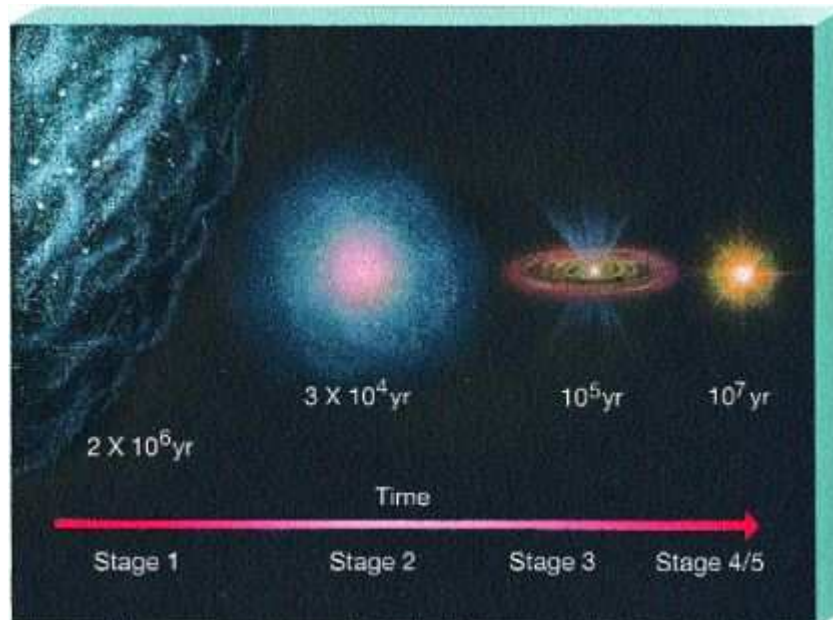


Stage 3 – Fragmentation Ceases

- Central temperature increases
- Density faster in the core than at the periphery
- Outer portions are cooler and thinner than the inner

Stage 4 – Protostar

- Embryonic object
- Occurs at birth of star
- As it evolves, size decreases and density increases
- More luminous than the sun



Stage 5 – Protostar Evolution

- Shrinks to ten times larger than our sun
- 5,000,000 Kelvin core temperature

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Stage 6 – Newborn Star

Stage 7 – Main Sequence

There might be a different series for stars of other masses. You need to include the 7 stages minimum in your presentations.

Please use PowerPoint or Photo Story to explain the process. This is material that you are responsible for understanding at the conclusion of this assignment. You may choose to narrate your presentation. There are headsets available for you to use. Feel free to use the internet (keep a record of your sources) and/or the textbooks (the cabinet should be open).

When you have completed your project please place a copy in the class “dropbox” and make sure that you save one in your server folder.

If you have questions, I will be on email this morning.

iteachchem@gmail.com

Good Luck.

Hatak