Protostar	Nebula
 No Nuclear Fusion Made up mostly of Hydrogen Early Star Formation Lifetime 100,000 and 10 million years 	 Material and "dust cloud" from which a star is "born" No Nuclear Fusion Lifetime 10 million years
Super (Red) Giants Star	(Red) Giants Star
 Does the fusion of heavier elements of Helium, Carbon, Oxygen, and Iron Formed after the main sequence of a massive star runs out of Hydrogen to fuse Average lifetime 10 Million years 	 Does the fusion of helium into carbon and oxygen Formed after the main sequence of an average star when the star runs out of hydrogen to fuse Average lifetime 1,000 Million Years
Supernova	Average Size Main Sequence (<8 solar
 Occurs when a massive supergiant star collapses Any elements heavier than iron (Fe) were fused during a supernova Average lifetime: 1 year 	 Facts Spend most of the star's Life fusing Hydrogen into Helium Most like the Sun Average Lifetime 10,000 Million Years
White Dwarf Star	Neutron Star



Super (Red) Giants Star

Supernovas

 Facts The fusion of heavier elements of Helium, Carbon, Oxygen, and Iron Formed after the main sequence of a massive star and runs out of Hydrogen to fuse Average lifetime 10 Million years Bue supergiant stor Bue supergiant stor 	 <u>Facts</u> Occurs when a massive supergiant star collapses Fuses all elements heavier than Iron (Fe) Average lifetime: 1 year
 Super (Red) Giants Star Facts The fusion of heavier elements of Helium, Carbon, Oxygen, and Iron Formed after the main sequence of a massive star and runs out of Hydrogen to fuse Average lifetime 10 Million years Bus super giant star Bus super giant star Bus super giant star Bus super giant star 	Supernovas Facts Occurs when a massive supergiant star collapses Fuses all elements heavier than Iron (Fe) Average lifetime: 1 year
 Super (Red) Giants Star Facts The fusion of heavier elements of Helium, Carbon, Oxygen, and Iron Formed after the main sequence of a massive star and runs out of Hydrogen to fuse Average lifetime 10 Million years Bue supergiant star Status 	Supernovas Facts Occurs when a massive supergiant star collapses Fuses all elements heavier than Iron (Fe) Average lifetime: 1 year

Super (Red) Giants Star	Supernovas
Facts	Facts

