

Review Article

Easy to Remember Star: A Review about Star Information

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Abstract: As the gases from which stars are born are ejected by those very stars when they die, the life of a star indicates that cosmic matter is on an endless cycle of birth, death, and regeneration. The dense carbon in their cores provides the building blocks for new planets, stars, and even life on this or other worlds. On a clear night, gazing up at the sky, the scene is traditionally one of millions of dazzling sparkling stars. The present review works gives innovation information about star, Sun, Asteroids & Galaxies along with easy way to remember about stars.

Keywords: Star, Sun, Asteroids & Galaxies.

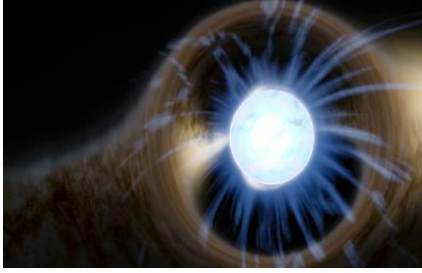

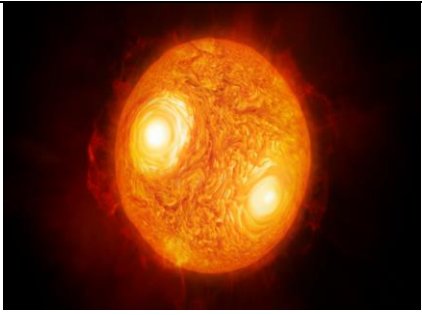


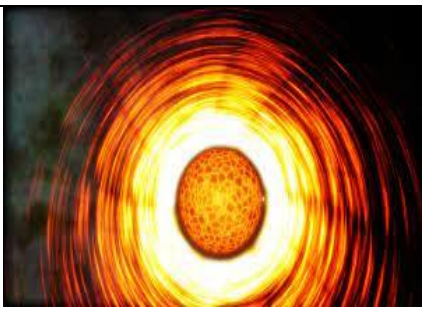
INTRODUCTION





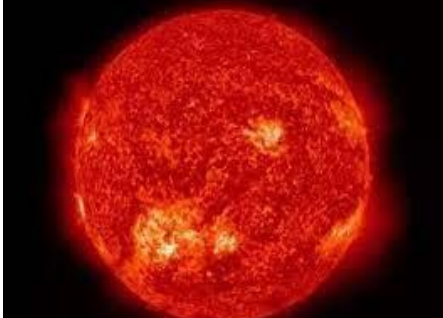
Stars are mainly responsible for most of the chemical evolution of the Universe, elements being created and destroyed by nuclear burning in their deep interiors, before they are consequently ejected into the interstellar medium at the end of the stars' lives [1, 2].


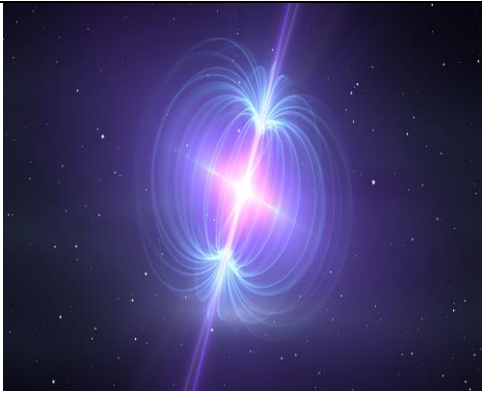
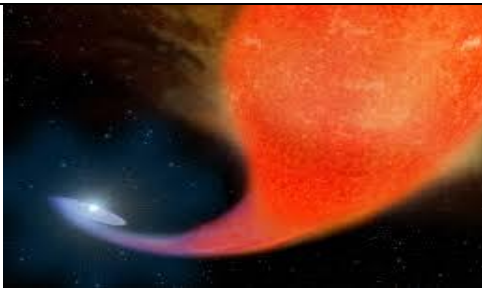
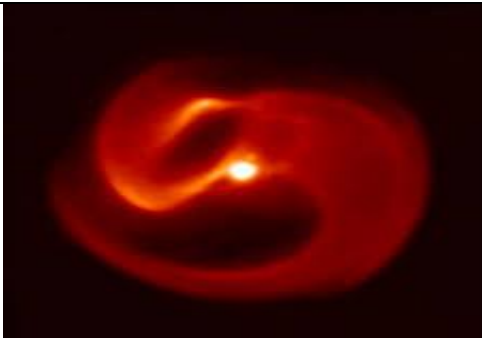
Types of Stars [3, 4]

Stars	Description	
Main Sequence	Most common type of star fuses hydrogen to create helium.	
Binary Star	Two stars that revolve around each other.	

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<p>Neutron Star</p>	<p>Super dense star of tightly packed neutrons</p>	
<p>Pulsar</p>	<p>Spinning neutron star</p>	
<p>Supergiant</p>	<p>One of the largest types of star.</p>	
<p>Wolf-Rayet-Stars</p>	<p>Very hot, massive, luminous stars that lose mass at an extremely high rate.</p>	
<p>.Eclipsing Binary Star</p>	<p>Binary Stars in line with earth that pass in front of each other creating eclipses.</p>	
<p>Quasi Star (Black hole star)</p>	<p>A hypothetical star type with a black hole at its core.</p>	

<p>Hypergiant</p>	<p>One of the largest types of star.</p>	
<p>Hybrid Stars</p>	<p>A supergiant star with a neutron star after they have collided.</p>	
<p>Hypervelocity Star</p>	<p>One of the fastest moving star.</p>	
<p>Merging stars</p>	<p>when two stars begin to collide (Stellar Collision) they can combine to create a much larger star.</p>	
<p>Travelling red giant</p>	<p>A runaway red giant star.</p>	

Diamond star	A star with a crystallized carbon(diamond core)	
Magnetar	A neutron star with an extremely strong magnetic field.	
Vampire star	A star that sucks hydrogen forms its companion star increasing its mass and lifespan.	
Exploding wolf-Rayet-stars	The supernova of an extremely hot, bright star that could create Gamma burst a very powerful kind of energy.	

Easy to learn various types of stars [5, 6]



Sun: I am a yellow dwarf and I am your sun, I am the center of our solar system. I am a main sequence star, a type that is very common. I am made of hydrogen that converts to helium.

Toliman: I am an orange dwarf star, my name is Toliman from the Alpha Centauri triple star system – the closest systems to your sun. I am a binary star with a yellow dwarf, Alpha Centauri A, with red dwarf Proxima Centauri close by, maybe you visit someday.

Trappist-1: My name is Trappist -1 from the Aquarius constellation. I am a red dwarf star, cooler and dimmer than your sun. I have at least 7 orbiting planets, 3 that could have life on them which means you might have neighbours, you would call them aliens.

Tiede-1: I am a brown dwarf star; my name is Tiede-1. From the Pleiades cluster in the Taurus constellation. I am a small ball of gas, without enough mass, I failed to ignite so I am hard to see at night.

Arcturus: I am a red giant star, from the Bootes constellation I have used up my hydrogen core. As my age I will expand and shed my outer layers away, bearing a white dwarf star core and a nebula could display.

Bellatrix: A blue/white giant star Bellatrix is my name. In the Orion constellation, I burn hot with bluish flames; Blue stars burn hottest and are brightest in sky. We use up all our energy and then we say goodbye.

Betelgeuse: A red supergiant from Orion constellation. I am Betelgeuse. I am one of the rarest and largest types of star in the universe, I am building pressure and unstable, almost ready to explode eventually I could create a supernova and could create a supernova and could become a black hole.

Rigel: I am blue/white supergiant my name is Rigel. The bright star in the Orion constellation where I dwell, I am still a young star with extreme luminosity. One of the hottest and rarest types of a star in the galaxy.

Crab Pulsar: I am Crab Pulsar, a young spinning neutron star. I am left from a supernova of a giant star's collapsed core. You can find me in Taurus constellation; I am very small, dense and unique. I rotate 30 times per second so it looks, to you like I blink.

Procyon B: I am a white dwarf star named Procyon B, I am in the constellation canis minor, and I am a star that's binary. I used to be a large star that used up all its energy, so I shed my outer layers, and all left is little dense in me.

Sirius: I am a binary star, my name is Sirius, I am the brightest star you see at night, but there's actually 2 of us. Sirius A a white hypergiant star, Sirius B a white dwarf stars. You can find us in Canis Major circling around each other.

Rho Cassiopeiae: I am the rarest type of star. I am a yellow hypergiant, the biggest stars by far. I am very far away but 500 times brighter than your sun, although I am very rare.

U Y Scuti: U Y Scuti is my name and I am the largest known star, I am a red hypergiant bigger than all the other stars are. I come from the Scutum constellation very far away, thousands of light years from earth near the center of the Milky Way.

Altair: I am a white dwarf main sequence star, my name is Altair. From the Aquila constellation, not too far out there. I am a fast revolving star, it takes only 10 hours for me to rotate, which is why I am not quite round, I have a flattened-out shape.

Zubenschambli: I am Zubenschambli, the brightest star in the Libra constellation. I am binary with Zubelganubei, 2 brightest we have cool names, I am classified as a blue/white main sequence star type, but strangely, I look green to the human eye.

Vega: Vega is my name, a bluish/ white main sequence star. I rotate every 12 and a half hours which makes me bulge out far. From the constellation Lyra, I have two debris discs around me, an inner disc like your asteroid belt and an outer one you see.

Pollux: My name is Pollux, an orange giant from Gemini constellation. My friend Castor and I are the heads of the twins you see in your night sky. I am the closest giant star to your sun and I am extremely bright, I have a planet, Thestias, he's more massive than Jupiter that's right.

Aldebaran: I am an orange/reddish giant my name is Aldebaran. I am located out in the Taurus constellation, I am know as the “Fiery eye of bull’ the “*Eye of Taurus*” and the “ *Bull’s Eye*”. I am the brightest star in Taurus constellation and one of the brightest in your sky.

Deneb: A blue/ white supergiant, from the Cygnus constellation Altair and Vega and I are also a part of another shape creation, we are easy to find because we are part of the summer triangle asterism, a few bright stars that form an easily identifiable pattern.

Polaris: I am Polaris or famous North Star, I yellowish/ white supergiant located in Ursa Minor. People on earth can navigate by me because I am always in North. I am above earth’s northern axis, so I don’t move back.

Pistol Star: I am the Pistol star from the Sagittarius constellation, a blue hypergiant in the Milky way’s galactic center region. I am one of the most luminous known star in the Milky Way Galaxy, I get my name from the Pistol Nebula that I illuminated around me.

V V Cephei: A red hypergiant and eclipsing binary star. My blue-white dwarf companion and I orbit around each other, as we pass in front of each other our brightness decreases, you can watch us eclipse each other in the constellation cepheus.

Antares: I am a red supergiant, Antares that’s me. The brightest star in the Scorpiuos constellation, you see, I am a very cool star and my lifespan is coming to a close. Eventually, I could supernova, which would be a fantastic show.

R136A1: I am R136A1 a wolf rayet star. Extremely massive and luminous types of stars we are. You can see me in the Tarantula Nebula, but I am very far away, I live in the large Magallanic cloud, a dwarf galaxy beyond the Milky way.

V Y Canis Majoris : A red hypergiant from canis major constellation. I am surrounded by a nebula cloud made from my already ejected mass, I am so large, that when I end I will be hypernova which may create energy of 100 supernovas.

Quasi Star: I am Quasi Star, also known as black hole star. An extremely massive star that’s powered by a black hole at my core, a normal star is power by a nuclear fusion core, that’s typical. But I am unique and for now, I am only hypothetical.

M Y Camelopardalis: A binary star, orbiting so close, begging a stellar- collision with each other. Two blue main sequence stars starting to share an atmosphere. Very soon we will merge into one supergiant sphere.

HV11417: A hybrid star – star inside a star, is that even possible? Some astronomers say it is and think that’s what we are called a *TZO Object inside a supergiant*. I am HV11417 and I am also TZO candidate.

Mira: I am Mira a red gaint with an orbiting white dwarf. The gas that I shed forms a protoplanetary disk around my partner. Moving fast and leaving a gas trail called stellar wind behind me, it looks like a tail, but I am a true shooting star you see.

Cannoball Pulsar: I am the Cannoball Pulsar a runaway hypervelocity star, and my full name is (PSRJ0002+6216) in the time it takes to say my full name, I have travelled really far. The core of a supernova star whose explosion sent me hurting through the galaxy. One of the fastest moving pulsars. I will keep running until someone catches me.

Stellar Burst IPTF14HLS: I am zombie star – back from dead, and may have exploded twice already. I will start to dim, then I am bright again, I will diminish when I am ready.

HD74423: A lopsided main sequence star, I have a red dwarf companion that is so close its pulling on me. less than 2 days orbit each other, I am distorted by its gravity, which makes me egg shaped and causes pulsations on one side me.

SAO206462: A galaxy? No I am a star, but it’s a little hard tell because I have reaching spiraled arms.They expand me more than twice the distance than Pluto would be, where new planets are born, my own solar system to keep me company.

Black dwarf: Completely dark, no more energy to burn, a dark mass in the cosmos. I am a black dwarf star – and if I exist, nobody knows. I am all that is left when a white dwarf cools and burns out completely, Astronomers have not found proof I exist yet, but I make no light, so I am hard to see.

XTEJ1810197: I am a neutron star but astronomers call me a magnetar. Dead or alive or maybe a zombie, I have a very strong magnetic field, around a quadrillion times stronger than what the earth can yield.

SS Lephoris: I am a peculiar binary star known as SS Lephoris. Also known as a *Vampire star* because we transfer hydrogen between us. I am smaller from my companion but am sucking energy from it he is a red giant. Someday I will become much larger.

Lucy: I am Lucy, named after a famous Beatle's song they say. I am incredibly dense and cool for a star which causes me to vibrate, not just a dim white star, astronomers discovered my secret within, I have crystalized carbon core, or a heart made of diamond.

Apep: I am apep is a binary star on the verge of an extreme supernova. Both super-hot, bright wolf-rayet stars we live fast and die hard. Our ejected outer layers are creating a snake shaped nebula around me, when we will become a supernova we will release a gamma ray burst – the most powerful type of energy.

Asteroids [7]



Ceres – My name is Ceres the largest asteroid to be discovered, but now I am classified as a dwarf planet, my true self has been uncovered. I am the largest known object in the asteroid belt, it's true. I have a thin atmosphere that could contain water vapor from my surface too.

Vesta – My name is Vesta, one of the 4 largest asteroid known. I have a unique surface, like that of terrestrial worlds long ago, my surface used to be very active and was covered in lava flows. I have a huge impact crater so deep that my inner mantle is soch exposed.

Pallas – My name is Pallas the 2nd largest asteroid discovered after Vesta, I have an eccertric orbit I like to orbit differently. I have may collided with earth after the extinction of dinosars.

Hygiea – I am asteroid Hygiea, but scientist discovered that I am round which means, I finally qualify and I am a dwarf planet candidate now. I am one of the coldest places in the universe.

Ida – I am Ida I am special because I have a friend at my side. His name is Dactyl, my moon, and he is only a mile wide. We travel in the asteroid belt together, it is good to have a friend beside me, there are hundreds of stars or asteroids that have moons and are binary.

Bennu – I am Bennu, I don't live in the asteroid belt, I orbit between earth and mars. I am known as a near earth asteroid, because from earth I am not that far, NASA's Qsiris – Rex visited me in 2018 and made a discovery. I shoot out plumes of dust that create a haze around me.

Itokawa – I am Itokawa and I am a near – earth asteroid too, I might collide with earth someday but we have got a million years before I do. I am the first asteroid form which actual samples were taken for me, now they are back on earth for scientist to study.

Patroclus – Patroclus and Menoetus we are binary asteroids. We are not from the asteroid belt, but further out, Trojan asteroids. We share Jupiter's Orbit in our journey around the sun, it's a much longer orbit than the asteroid belt, but together it's more fun.

Chariklo – I am Chariklo, not from the asteroid belt or centaurs. I live beyond this, I am a member of an asteroid class known as centaurs between Saturn and Uranus. I am also very unique because of a very special feature you see, I am the first asteroid to be discovered with rings. I have got 2 around me.

Eros – I am Eros a near-earth one of the largest ones known, the inner asteroid belt is where I make my home. I was the first asteroid to ever have a spacecraft land on me. Near Shoemaker landed on my surface after almost a year of study.

Antiope – Antiope is the name, we are special because we are a double asteroid. We are twins-almost equal in shape and size, together in the void. We have a circular orbit around each other and we hold on tight, as we travel together through the outer asteroid belt, swerving through the night.

Sylvia – I am Sylvia from the asteroid belt and I am very special too, the first asteroid discovered to have more than one moon I have two. Their names are Romulus and Remus and they orbit me. I am a collection of very loose rocks, a rubble pile and I have very low density.

Hebe – I am Hebe a large asteroid known from an unstable part of the asteroid belt. I am very bulky and dense and have very few impact collisions that I have left. Impacts I suffer are affected by Jupiter's gravity and the pieces launched all about, which make up a large amount of meteorites that hit earth better you look out.

Kleopatra – I am Kleopatra, from the asteroid belt, I am known for my very odd shape. A cross between a dog bone and a dumbbell is the form I take. I have two moons to keep me company and stay by my side, Cleoselene and Alexhelios are their names and I am their guide.

Icarus – I am Icarus, I am not from the asteroid belt, centaurs or Trojans you see, I have an eccentric orbit and I come closer to the sun than Mercury. The first Mercury crossing asteroid discovered. I also cross paths with Venus, Earth and Mars. On a near-earth approach, I was, the first asteroid observed by radar.

Chiron – I am Chiron, I am called an asteroid, but I am a rare specialty. I am also known as a comet because I am icy and have a coma around me. I am classified as centaur because I reside between Uranus and Saturn, and I may also have rings, though they are not confirmed.

Phaethon – I am Phaethon, a rebel, an asteroid/comet hybrid that's me. My elliptical orbit brings me closer to the sun than any other named asteroid would dare to be. I am the source of the Geminids meteor shower which is a belt strange, I am also blue, not brown or gray and was the 1st asteroid discovered by spacecraft in space.

Petrina – I am Petrina and I am Mr. Spock from the asteroid belt. I am the first asteroid named after a dog and I was named after a cat. We both are very hot and very small.

Galaxies [8-10]



Milky Way – I am the Milky Way galaxy and you are in me. I'm a spiral galaxy. I have spiral arms.

Messier 87 – I am Messier 87, an elliptical galaxy. In elliptical constellation is where to find me. I have a black hole in center of me which will cause death of me. I am shaped circular with no special features. I am a red supergiant galaxy. I am very old. Only dust is left on me.

Small Magellanic Cloud – I am small Magellanic Cloud. I am an special galaxy. I am very proud. I am an irregular galaxy. I am small and odd shaped you see. I am full of stellar matter and dust making the stars mysterios. I travel with the large Magllanic cloud. We're orbiting our neighbour the Milky way now.

Antennae Galaxies – We are the marging Antannae galaxies/ we collided hundreds of millions of years ago you see. We are classified as a Peculiar Galaxy. Because, we are very different and shaped abnormally. We are also known as a starburst galaxy. Because our star formation rate is very high and happening rapidly.

NGC4111 – NGC4111, A special type of galaxy, I am one in the constellation canes venatici. I'm known as a centicular galaxy, why? My shape is between spiral and elliptical. I have no arms but a great central bulge, surrounded by a flattened disk. I'm not a sight that you should miss.

NGC1365- I'm NGC1365. The Tornax constellation is where I reside. One of the largest galaxies. I'm huge in size, 200,000 light years across, I'm voide. The great barred spiral galaxy. A bright center and Bar of old stars across me. I have very prominent blue spiral arms. Which add to my unending charm.

Quasar 3C273 – I am quasar 3C273 I emit large amounts of energy. I'm the bright center of a galaxy, powered by a black hole at the center of me. The brightest object in the universe. I'm the quasar that was discovered first. In a large elliptical galaxy far away. In the constellation virgo is where I stay.

Cartwheel Galaxy – A special ring and lenticular type, I'm the Cartwheel Galaxy. A smaller galaxy passed through my large disc shape and made shock waves all through me. This collision sparked lots of star formation, throughout me, interspersed. In the constellation of sculptor, I cartwheel across the universe.

Hoag's Object – That is me, also known as the Ring Galaxy. Ring Galaxies are a rarity, but I'm a real mystery. A nearly perfect ring of young blue stars, around a yellow nucleus where much older stars are. There's no evidence of a galactic collision, I'm on my own in the constellation serpens.

Tadpole Galaxy – I'm the Tadpole Galaxy, I'm a bit of an anomaly. My spiraled arm got stretched out you see, so now I have a tail behind me. A small blue intruder galaxy crossed in front of me, I flung it around behind me using our gravity. Clusters of blue stars fill my tail, in the Draco constellation, I leave my trail.

ARP87 – ARP87 two interacting galaxies, NGC3808A and B. We are having fun swinging around each other by holding arms you see. We aren't colliding, just dancing, in the leo constellation is where we are. We'll eventually merge into one irregular galaxy as we dance across the stars.

ESO381-12- ESO-381-12, In the centarus constellation is where I find myself. I'm no ordinary lenticular galaxy, I'm a very interesting discovery. I have ghostly uneven cluster of stars, extending outward from me really far. A flower like bloom for all to see, how these petals formed are a mystery.

Porpoise Galaxy- I'm the Porpoise Galaxy where do I start? Firstly, I'm a galactic work of art. I look like a dolphin or porpoise you see, because I'm made up of two merging galaxies. Elliptical NGC-2937 in the mix, with spiral NGC-2936, with a huge star forming region in my nose, the constellation Hydra is where I go.

Andromeda Galaxy – I'm the Andromeda Galaxy. The closest spiral galaxy to your Milky Way, that is me. The most distant object in your night sky, that you can see with unaided eye. I'm a massive spiral galaxy just like your own, near the constellation Andromeda. I make my home. I'm on a collision course with the Milky Way, but not for billions of years so don't worry today.

CONCLUSION

Any huge self-luminous astronomical body of gas that illuminates through radiation derived from its internal energy sources is referred to as a star. Only a fraction of the tens of billions of trillions of stars that make up the observable cosmos are visible to the naked eye. Many stars form stellar clusters, multiple systems, or pairings. The present review gives illustrated information about star, Sun, Asteroids & Galaxies along with easy way to remember about stars.

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