Cheatography

Astronomy Vocabulary Cheat Sheet by sayuri_3 via cheatography.com/125176/cs/27838/

6.2 Galaxies - Vocabulary Star A giant ball of hot,		6.2 Galaxies - Vocabulary (cont)		6.3 Life Cycle of a Star - Vocabulary (cont)		6.3 Life Cycle of a Star - Vocabulary (cont)	
Nuclear	glowing gases (usually hydrogen & helium) A process where	Main Sequence	A diagonal band most stars fall into when plotted on the HR Diagram	Hydros- tatic Equili- brium	The balance of the forces of a star's gravity and energy output.	Supernova	The event where a red supergiant runs out of energy and collapses,
Fusion	the nuclei of atoms join and emit energy as light, heat and other electromagnetic radiation.	Speed of Light	Light travels at 300,000 km/s.	Red giant	Hydrogen decreases, gravity is stronger than energy output, a new type of nuclear fusion begins, releasing more energy, reaching a new hydrostatic equili- brium and cooling to red. Helium supply decreases in a red giant and the outer region fades to a shell.		resulting in a large explosive death.
		Light- Year	The distance that light travels in a year (9,500,000,0-00,000 km).			Neutron Star	The aftermath of a supernova with a mass of less than 3 solar masses, an incredibly dense star with a diameter of only
Apparent Magnitude Scale	A measurement of a celestial object's brightness when viewed from Earth (the more positive the number the	Parsec Parallax	Approx. 3.26 light years. The effect where				
		raialiax	an object appears to move when viewed from two			Black Hole	tens of kilometers. The result of a supernova with a mass greater than 3 solar masses, a region of space with an extraordinary gravitational pull and density that even light cannot
Absolute Magnitude Scale	dimmer the star). A measurement of a celestial object's brightness if viewed from the same distance; a measure of a celestial object's actual brightness or luminosity.	Galaxy	different positions. A group of stars held together by their gravity, galaxies form three shapes, elliptical, spiral and irregular.	Planetary Nebula			
				White Dwarf	The core of a planetary nebula continues nuclear fusion, increases energy rate and temperature to get a small, white hot		
		Conste- llation	An imaginary picture in the night sky made up of stars.				escape.
Hertzs- prung Russel Diagram (HR)	A graph that plots a star's temperature on the x-axis and absolute magnitude on the y-axis.					6.4 Moving (Galaxies A spectrum with
		6.3 Life Cycle of a Star - Vocabulary		Black Dwarf		Spectrum	lines missing from the pattern due to elements of the
		Nebula(e)	A cloud of gas and dust held together by the gravity of the hydrogen atoms within it.	Dwaii	cooling and fading away.		star absorbing their light wavelengths, therefore removing them from the spectrum.
				Red Supergiant	A continuation of the red giant until iron is formed, resulting in a much larger, red star.		
		Protostar	When the center of a nebula heats up and pressure increases.				



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6.4 Moving Galaxies (cont)

Emission Spectrum The pattern of wavelengths (or frequencies) that appear as coloured lines on a spectrascope; the light wavelengths that are emitted from certain gases when they return to a stable state.

Doppler Effect The effect that occurs when an object is moving slower than the speed of sound; waves in front of the object compress while waves behind disperse.

Red Shift

An increase in wavelength of radiation emitted by a celestial body which shifts the absorption spectra in the red direction of the spectrum, indicating that the object is moving away from the Earth.

Blue Shift

A decrease in wavelength of radiation emitted by a celestial bosy which shifts the absorption spectra in the red direction of the spectrum, indicating that the object is moving towards the Earth.

6.4 Moving Galaxies (cont)

Huibble's The further the

Law galaxy, the higher the tendency to

have a more redshifted spectra; the ffurther the galaxy, the faster it was

moving away.

Big Bang Theory the theory that the universe began from a hot dense state which has continued to expand and will continue to do so.

6.5 The Big Bang Theory

Singularity

A single, dense,

A form of electr-

hot point.

Cosmic Microwave

omagnetic
d radiation in the

Background Radiation

microwave spectrum left

over from the formation of the Universe; evidence of the

Bug Bang theory.



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