

The Sun Cheat Sheet by Eunicornz via cheatography.com/33171/cs/11316/

Composition of the Sun

device used to break sun's light spectrogram into spectrum

dark gases in outer layers absorb lines wavelengths of light

temperature = which gases produce visible lines

temperature, density, pressure

the sun 75% hydrogen

Nuclear Fusion

Magnetism

If it is wound too fast, they burst

2 sun spots (N&S pole of magnet)

When 2 spots merge into 1, solar flare

Solar wind arrives in 20 hours disrupting

The sun is gas, so magnetic field becomes twisted like rubber bands

sends charged particles toward Earth

satellites and creating auroras

sunspots have an 11 year cycle

By Eunicornz

cheatography.com/eunicornz/

Sun's Energy

Nuclear Fusion the proton cycle

2 groups of 3 protons

collisions result in 2 molecules of He³

He⁴ is less dense than the 4 protons

 $E=MC^2$

400 million tons per second * 90,000,00-

sun burns all energy ever used on Earth

every second

Sun Facts

the sun is the size of an average star

the sun is 332,000 times larger than the sun

74% hydrogen 25% helium core temperature: surface temp:

15,000,000K 5.800K Burns hydrogen at 400 million tons/second

At 5 billion years, the sun is at half-life

The Layers of the Sun inner core Hydrogen and Helium (no 15,000,000 electrons) nuclear fusion` С H & He (no elecctrons) radioative 2.000.000 energy dispense 7,000,000C convective H & He (stable w/ electron) 2,000,000C energy absorbed Photosless dense, energy shoots phere out as photons of light when 6,000C electrons go in an energy Chromo-Atmosphere of the sun (6,000 C - 20,000 C) sphere 4,000 -50,000C Corona The outer most layer, heats

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Sunspots 3,800C