Cheatography

The Layers of the Sun Cheat Sheet

by Eunicornz via cheatography.com/33171/cs/11335/

Inner Core

Core = 15,000,000 C

The core is 25% of the diameter (1,390,000 km)

Core is ionized gas

pressure causes the core is <10 times as dense as iron

The Photosphere

temp: 6,000 C

gases from convective zone

Photosphere = "sphere of light"

Energy is given through visible light

The Corona

Temp: 1,000,000 C

a crown of light

magnetic field from corona can stop most subatomic particles

ions stream out as corona expands = solar wind

Corona and the Chromosphere are usually not visible from Earth, but a solar eclipse will cause corona to be visible.

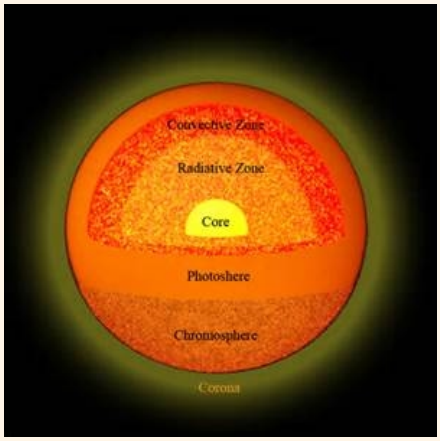
The Radiative Zone

Temp: 2,000,000 C - 7,000,000 C

the energy from the inner core radiates out to the radiative zone

The energy is in electromagnetic waves or radiation

The Layers of the Sun



Sunspots

Temp: 3,800 C

Appear in photosphere

diameter = 100,000 km

Movement of gases cause magnetic fields

Magnetic fields cause slower convection

Slower convection = decrease in transferring energy

Less energy transfer = 3,000 C cooler

Granulation is the grainy appearance

The Convective Zone

Temp: 2,000,000 C

Energy is produced through convection

gases carry energy to the surface (outward expansion = loss of energy)

cooling gases are denser and sink and "-melt" again

The Chromosphere

temp: 4,000 C - 50,000 C

Chromosphere = color sphere

thin layer of gas with reddish glow (hydrogen)

Gases creates solar flares

Solar flares up to 16,000 km

measure wavelengths of light is blocked

Rotation

Equator	1 rotation = 25.3 Earth days
Poles	1 rotation = 33 Earth days
Average	1 rotation = 27 Earth days

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