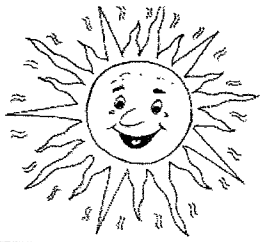

The Sun Date.....

EMR

Stars give off energy called 'electromagnetic radiation' (EMR).
Our sun gives off most energies in the electromagnetic radiation spectrum.

List the EM spectrum

Radio waves, micro- waves, infrared waves, visible light, ultraviolet (UV) rays, X-rays, gamma rays

** The sun energy is very important. List 2 very important things it does:

#1 Controls our weather & climate

#2 provides energy that supports life on earth.

Sun's TEMP

Sun is composed of gases!

The hottest temperature found in the sun is 15,000,000 °C and is found @ core

Sun's SURFACE

The sun rotates once every 25 days. This creates currents and movement on the sun's surface. This creates some interesting features we can see with telescopes.

Sunspots => darker spots on SUN. They are cooler areas.

Solar Flares => gas + charged particles expelled from SUN (last short time)

Solar prominences => low-energy gas eruptions from SUN. Extend far into space.

Sun's Effect on Earth

Other than what was mentioned above ** (Solar winds bring charged particles towards earth)

Auroras borealis => "Northern lights"
Solar winds interact with magnetic north pole + produce light

Communication disruptions =>
strong solar winds can disrupt our computers — including cellphones & TV communications.

Radiation Hazards =>
strong solar winds = radiation.
Astronauts can be exposed to higher levels of radiation when beyond our atmosphere.