## Straw Painting the Sun

## The Dynamic Sun

The Sun (also called Sol) is the star at the center of our Solar System. The Sun's surface is very active and always changing.

The Sun is made of gases that are always moving. This movement makes the surface of the Sun a  $\mu \bullet C @ o X ^ u \S u \bullet \S Z ^ \mu v [\bullet \bullet \mu active. Other times, things are a bit quieter. Scientists on Earth monitor how quiet or active the Sun is.$ 

<u>Left:</u> E ^ [• ^} o Œ Ç v u] • K • Œ À š}a@s@arštlate• ‰] (the flash of light on the right) in 2017.

d Z ^ μ v [• • μ Œ ( hæs) ære ås] of intense magnetic activity, called unspots They appear dark because they are cooler than other parts of š Z ^ μ v [• • μ Œ ( X μ š š Z Ç Œ • š ] o o À Œ Ç Z } š U around 6,500 degrees Fahrenheit (3,600 degrees Celsius)! The number of sunspots increase and decrease in an 11-yeaplar cycle

Right: Large sunspot in 2011 Anage: NASA/SDO.

Solar flares are sudden explosions of energy on the Sun. They can causeronal mass ejections, which send out huge amount of energy into space. When the Sun is very active, we sometimes see the aurora around the North and South Poles of the Earth,

because the energy from the Sun interacts

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Discover more about the energetic Sun:

spaceplace.nasa.gov/solar-activity/en/

