

Name \_\_\_\_\_

## Solar Sizzle: Unveiling the Surface Temperature of the Sun

### Short Answer Key

1. The Sun's surface temperature is more than 15 times hotter than the hottest temperature ever recorded on Earth.
2. The chromosphere and corona have higher temperatures due to processes that are not yet fully understood by scientists.
3. Heat is transferred from the Sun's core to its surface through radiation, conduction, and convection.
4. Solar winds and solar flares can impact Earth's magnetic field, leading to phenomena like the Northern and Southern Lights (auroras).
5. The Sun's high surface temperature is essential for life on Earth as it provides the radiant heat necessary for maintaining our planet's climate, driving weather patterns, and supporting photosynthesis in plants.

