


Student Link

Lesson Activity for Grade 6 (*Science*: Windows to the Universe: The Sun)

Student Name: _____

INSTRUCTIONS

Did you know that there is a big star that we can see very clearly during the day? The **Sun** brightens our day and helps to keep our planet liveable. This lesson will take a closer look (without the need for sunglasses) at our sun.

- Starting from the Grade 6 StudentLink menu, click on "**Science**".
 - Next, click on "**Windows: Universe**" under the "Sky and Space" column.
- Then click on  and then "**The Sun**".

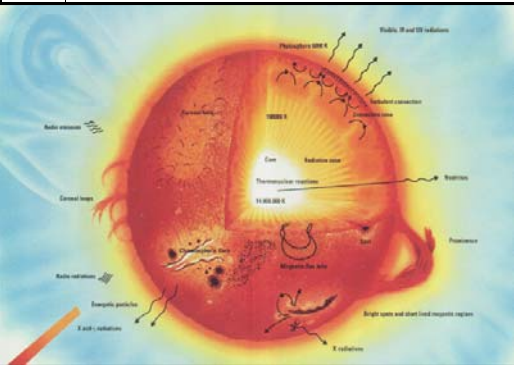


Every minute of every day the sun is heating our planet. Explain how the sun's energy travels outward toward Earth.

What is **granulation**?

Scientists use this technique to see inside the sun: _____.

- So what is the inside of the sun like? Click on [core](#) to find out...



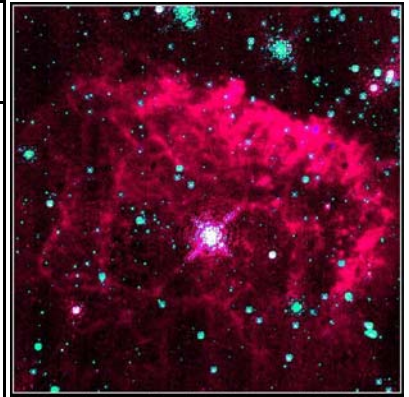
What is the temperature inside the sun? Is it light or dark inside the core?

What is the reaction called that produces the energy inside the sun?

- How does the energy process of the sun work? If you click on [fusion reaction](#), you can find out...

The opposite of nuclear fission is _____. How is this process used to power our homes?

What famous equation describes Nuclear fusion? Why is fusion so hard to control?



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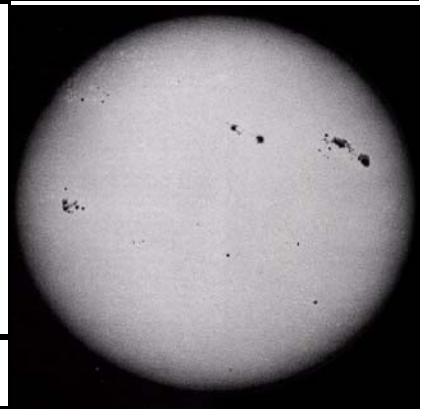
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(*Science*: Windows to the Universe: The Sun)

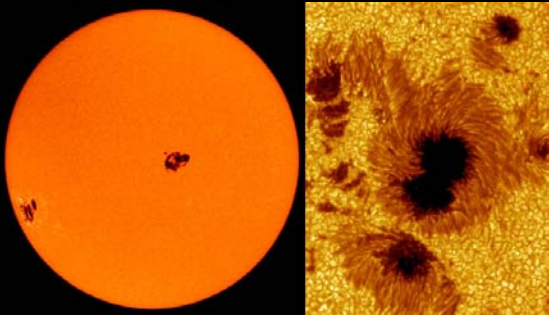
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4. If we know what the core of the sun is like and how what process is used to power it, what does it's surface look like? Hit the back button once and then click on [surface of the sun...](#)

Describe the features of the **photosphere**. Why is it an important part of the sun?



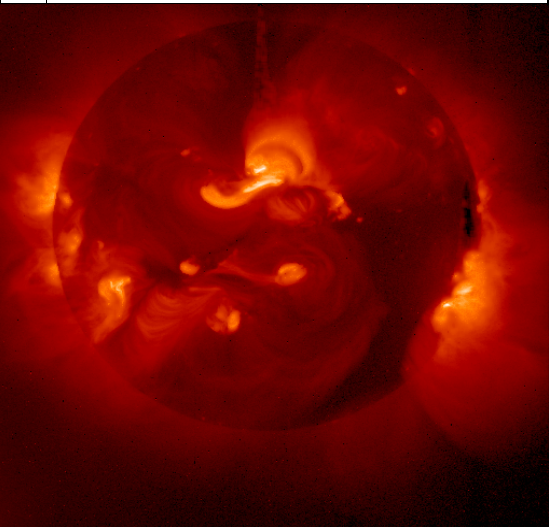
5. What are sunspots? Click on [sunspots](#) to learn more...



Describe what a sunspot is and how it is created.

What are the two parts to a sunspot?

6. Try two activities on the left hand side of the page: The sunspot animation and the sunspot jigsaw puzzle. When you're finished, navigate back to the main "Sun" page and click on "**Images**" to see cool shots like the one below.



What does the **sunspot** cycle refer to? Is our sun the only planetary body that has sunspots?

Why do sunspots appear dark? What is their average temperature?