Warm up 11.04.14

- Sit where you wish
- •Please take out your notebook and review the story and the notes you took about the videos

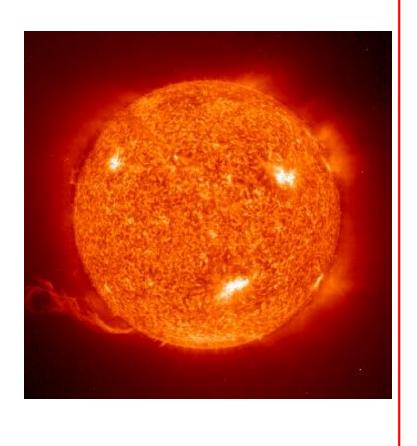
Goals for today:

- ✓ Announcements
 ✓ WYK110414
 - √The Sun: a star
 - **✓Internet Activity**

- 8th Anchor Questions Week 10 (Nov. 4-8)
 Due: Anchor Questions as assigned daily, complete
 by Friday, 11.07 Assessment: Friday, 11.07
- 1.Explain how our solar system formed (Nebular Theory)
- 2. Explain what a star is
- 3. How do stars, like the sun produce energy?
- 4. What is the "life-cycle" of a sun-sized star? 5. What is the "life-cycle" of a massive star?
- 6. List three layers of the Sun's Interior
- 7. What is in the "solar wind"?
- 8. List three solar effects and their effects on Earth 9. Describe what the "11 year cycle" is for the sun
- 10. What are sunspots and why are they important
- 11. Describe what causes the "Northern Lights"

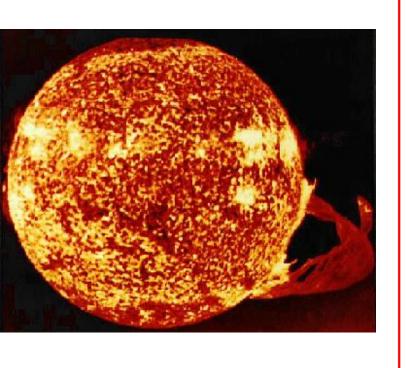
C-notes

Sun: What is it?

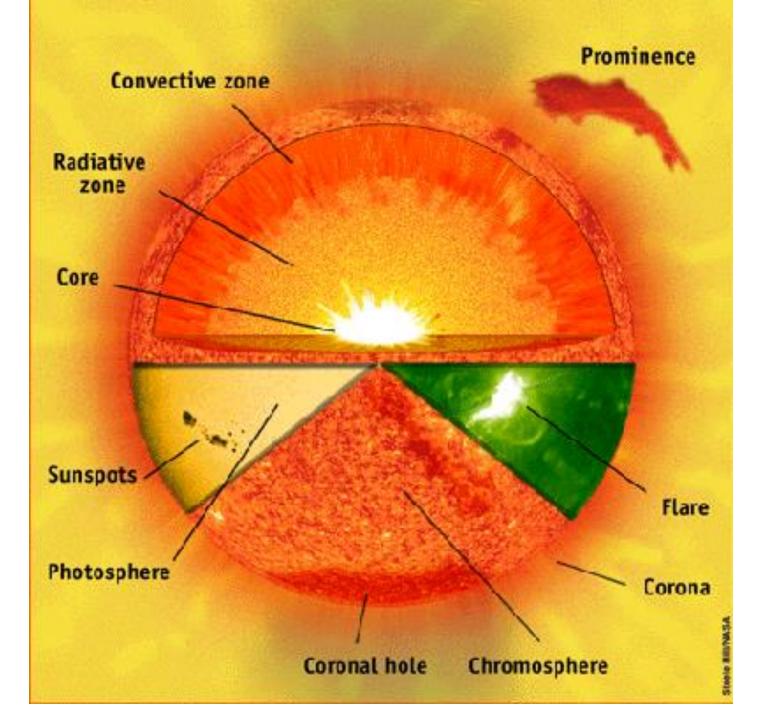


It is a star- it produces its own light Age: 4.6 Billion years old WILL "stop" shining in another 4 billion years Provides ENERGY for all living things on Earth

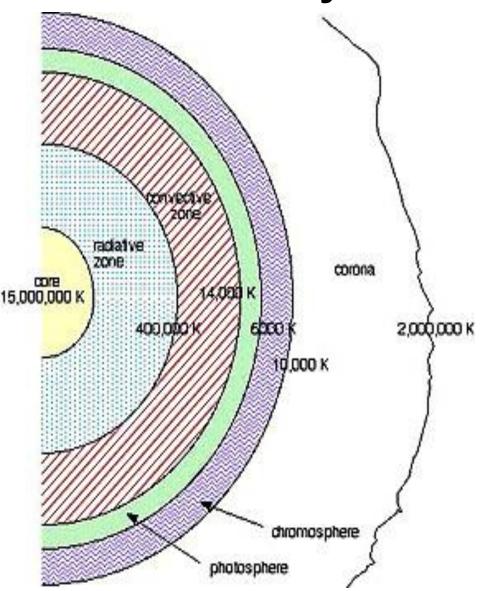
C-notes Sun: Energy



Sun "makes" it's energy The process that the sun uses to produce energy is called NUCLEAR FUSION (NF) NF- takes two H atoms and smashes them together to make a He atom That smashing releases **ENERGY**



The sun's Layers



Sun's Interior

Core
Radiative zone
Convection Zone
Photosphere

Sun's Atmosphere

Chromosphere Corona

C-notes

Layers of Sun's Interior: Explained

Sun Interior Core- hottest, deepest layer. This is where NUCLEAR FUSION happens Radiative Zone- this is the first layer where radiation exits the core. Usually involves electrons, protons and photons (light) Convection Zone- is where "matter" rises and falls due to convection Photosphere- this is the "surface" of the sun. Light escapes from here

C-notes

Layers of Sun's Atmosphere: Explained

Atmosphere Chromosphere- thin layer colored red. Barely visible at sunrise or sunset Corona- very hot, extends into space. You can only see during total eclipse