

Astronomy 1102/1104

Name: _____

Spring 2016 - Section Assignment 5

Section # _____

The Sun

Watch Video – 3 years in 3 minutes - Take notes on what you see and what things you have questions about. Patterns, shapes, colors, light, dark, movement, comment on anything!

Watch again with commentary – Take notes of new information that you hear. Events, numbers, names, physics, reasoning, detail, anything!

What new questions do you have about the Sun?

Watch video – plasma rain – what are some things you notice? Questions you have?

Energy!

Sun produces 3.85×10^{26} Joules per second

Describe Luminosity

That is equivalent to how many kg of matter a second?

Describe Flux using luminosity

The Sun is 7×10^8 meters in radius

What is the solar flux at the Sun's surface?

The Stefan Boltzman constant is 5.67×10^{-8}

What is the blackbody flux?

What is the temperature of the Sun?

What is the solar flux at Earth?