

## Quiz 6

1. What's the difference between flux and luminosity?
2. The Sun has a luminosity of  $382.8 \times 10^{24}$  J/s. What is the flux 1 AU away?  
 $L = F * \text{Area} = F * 4\pi r^2$ .
3. What if the Earth were twice as far?
4. *Extra Credit: How much energy does the Earth receive, in terms of its radius?*