

AST 301

Quiz #4

Name: \_\_\_\_\_

1. Describe in a couple of sentences how the spectrum of a hot glowing solid (an incandescent light) differs from that of a hot glowing gas.

An incandescent light emits light at all wavelengths (a continuous spectrum).  
A hot gas emits light only at certain wavelengths (an emission line spectrum).

2. What is the process that produces most of the energy inside of the Sun?  
For full credit give more than just a one or two word answer.

Nuclear fusion: joining of atomic nuclei to make more massive nuclei.  
Specifically, fusion of hydrogen to make helium.