

Date: _____

SNC1D

H-R Diagram Exercise

Plot the stars A-E on your H-R diagram. Once plotted determine their colour and type.

Letter	Temperature	Luminosity	Colour	Type of Star
A	6000 K	10^{-1}		
B	20000 K	10^6		
C	20000 K	10^{-2}		
D	2500 K	10^6		
E	4000 K	10^2		

Spectroscopy

How do we know what the planets, Sun, and other stars are made of?

Describe what you saw when you looked through the spectroscope at the white light source:

hydrogen gas discharge tube:

emission spectrum:

helium gas discharge tube:

emission spectrum:

neon gas discharge tube:

emission spectrum:

_____ gas discharge tube:

emission spectrum: