



Figure 32-1: HR Diagram. Approximate stellar masses (relative to the Sun) are shown along the main sequence curve

H-R Diagram Assignment # 2

Complete the table. Refer to the numbers below to fill out the columns.

Star Name	AM	SC	1	2	3	4	5	6	7	8
Antares A	- 4.5	M1								
Rigel Kentarus	+ 4.4	G2								
BD 1915 A	+11.2	M3								
Capella A	- .6	G8								
Spica	- 3.6	B1								
Procyon A	+ 2.7	F5								
Pollux	+ .8	K0								
Ross 248	+14.8	M6								
Ross 107	+10.5	B5								
Altair	+ 2.2	A7								

- 1) Is the star on the main sequence? (yes/ no)
- 2) What is the classification of the star? (Red Supergiant (RSG), Red Giant (RG), Blue Giant (BG), Red Dwarf (RD), White Dwarf (WD), Middle Main Sequence (MMS))
- 3) Is the star stable (S), or going through a birth of death process (B/D)?
- 4) What is the color of the star?
- 5) If the radius of the star larger, smaller or about the same size as our sun?
- 6) What is the approximate lifespan of the star on the main sequence?
- 7) Is the luminosity larger, smaller or about the same as our sun?
- 8) Is the surface temperature larger, smaller or about the same as our sun?