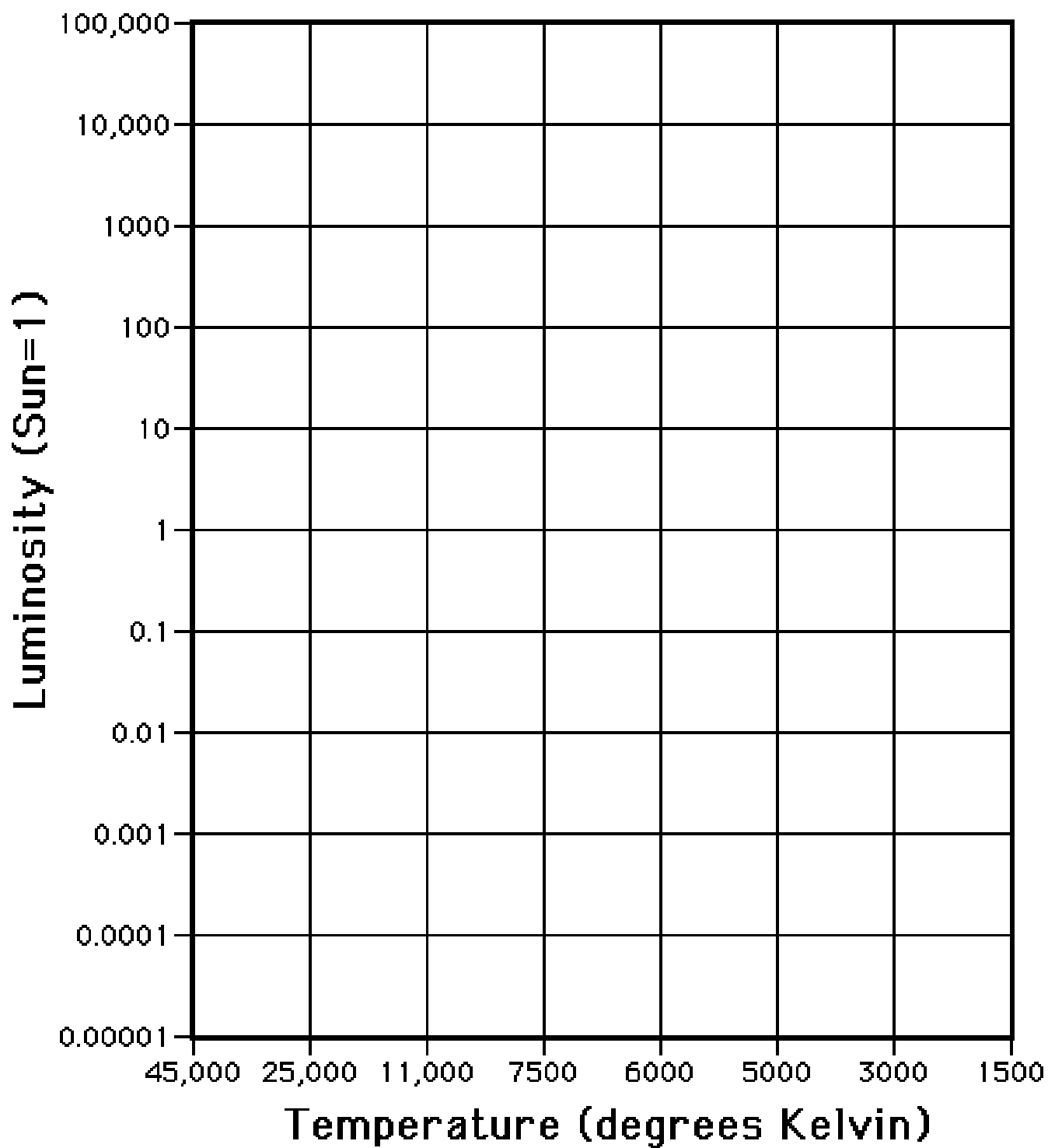


DIY Hertzsprung Russell Diagram

The H-R diagram is a graph of star luminosity versus star temperature. When many stars are plotted on an H-R diagram, it is found that they fall into groups. These groupings indicate star sizes and are clues to how the stars change during their lifetime.

Using the graph paper, plot the stars from groups 1, 2 and 3. Notice both axes are logarithmic and the temperature axis increases from right to left. If you are feeling very keen you could try to do it on Excel, but I accept no responsibility for any loss of sanity! Highlight and label the **Main Sequence**, **Giants** and **Dwarfs**.

	<i>Group 1</i>	Temperature (K)	Luminosity (Sun = 1)		<i>Group 2</i>	Temperature (K)	Luminosity (Sun = 1)
* 1	<i>Sun</i>	5,800	1.00	* 28	<i>Arcturus</i>	4,500	110.0
* 2	<i>Alpha Centauri A</i>	5,800	1.5	* 29	<i>Betelgeuse</i>	3,200	17,000.0
* 3	<i>Alpha Centauri B</i>	4,200	0.33	* 30	<i>Aldebaran</i>	4,200	100.0
* 4	<i>Alpha Centauri C</i>	2,800	0.0001	* 31	<i>Antares</i>	3,400	5,000.0
* 5	<i>Wolf 359</i>	2,700	0.00003	* 32	<i>Delta Aquarii B</i>	6,000	4,300.0
* 6	<i>Lalande 21185</i>	3,200	0.0055				
* 7	<i>Sirius A</i>	10,400	23.0				
* 8	<i>Luyten 726-8 A</i>	2,700	0.00006		<i>Group 3</i>	Temperature (K)	Luminosity (Sun = 1)
* 9	<i>Luyten 726-8 B</i>	2,700	0.00002	* 33	<i>Sirius B</i>	10,700	0.0024
* 10	<i>Ross 154</i>	2,800	0.00041	* 34	<i>Procyon B</i>	7,400	0.00055
* 11	<i>Ross 248</i>	2,700	0.00011	* 35	<i>Grw +70 8247</i>	9,800	0.0013
* 12	<i>Epsilon Eridani</i>	4,500	0.30	* 36	<i>L 879-14</i>	6,300	0.00068
* 13	<i>Ross 128</i>	2,800	0.00054	* 37	<i>Van Maanen's Star</i>	7,500	0.00016
* 14	<i>61 Cygni A</i>	4,200	0.084	* 38	<i>W 219</i>	7,400	0.00021
* 15	<i>61 Cygni B</i>	3,900	0.039	* 39	<i>Barnard's Star</i>	2,800	0.00045
* 16	<i>Procyon A</i>	6,500	7.3	* 40	<i>Luyten 789-6</i>	2,700	0.00009
* 17	<i>Epsilon Indi</i>	4,200	0.14	* 41	<i>Canopus</i>	7,400	1,500.0
* 18	<i>Vega</i>	10,700	55.0	* 42	<i>Capella</i>	5,900	170.0
* 19	<i>Achernar</i>	14,000	200.0	* 43	<i>Rigel</i>	11,800	40,000.0
* 20	<i>Beta Centauri</i>	21,000	5,000.0	* 44	<i>Alpha Crucis</i>	21,000	4,000.0
* 21	<i>Altair</i>	8,000	11.0	* 45	<i>Fomalhaut</i>	9,500	14.0
* 22	<i>Spica</i>	21,000	2,800.0	* 46	<i>Deneb</i>	9,900	60,000.0
* 23	<i>Delta Aquarii A</i>	9,400	24.0	* 47	<i>Beta Crucis</i>	22,000	6,000.0
* 24	<i>70 Ophiuchi A</i>	5,100	0.6				
* 25	<i>Delta Persei</i>	17,000	1,300.0				
* 26	<i>Zeta Persei A</i>	24,000	16,000.0				
* 27	<i>Tau Scorpii</i>	25,000	2,500.0				



violet	blue	green	yellow	orange	red
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