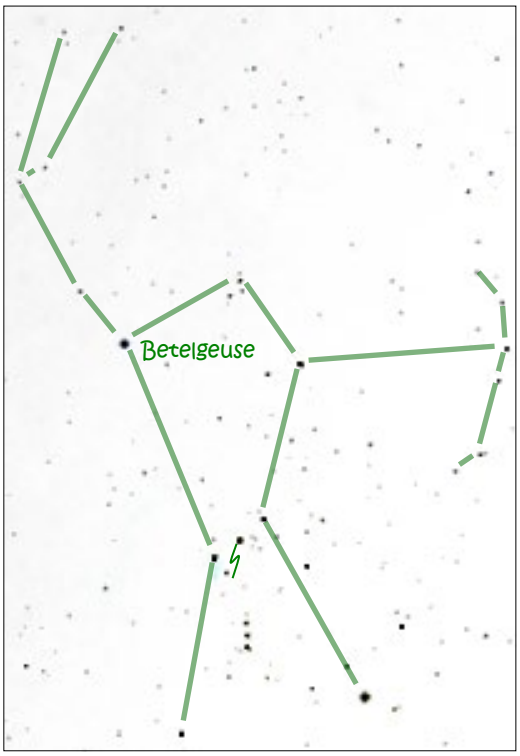
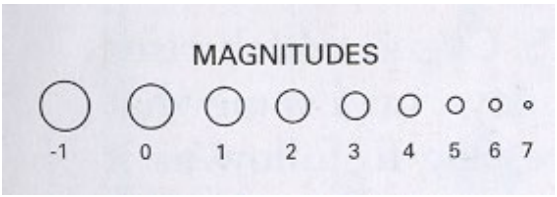
STAR DISTANCES AND MAGNITUDES

For the stars in Orion listed below, ***complete the table and label the diagram*** with "other" star names listed in the table (looking south from SLU at 9 pm on January 25) by using Appendix 2 and Atlas Chart 24 in the *Field Guide*.[31]

Apx. 2 in order of RA

BAYER DESIGNATION	RA	VISUAL MAGNITUDE (V)	ABSOLUTE MAGNITUDE (M_V)	DISTANCE (ly)	OTHER NAME
α Ori	5^h51^m	0.5	-5.0	522	Betelgeuse
β Ori	5^h15^m				
γ Ori	5^h25^m				
κ Ori	5^h48^m				
δ Ori	5^h32^m				
ε Ori	5^h36^m				
ζ Ori	5^h41^m				





List the stars in the above table in order of distance from the sun. (use the Bayer Designation … both Greek letter and Constellation abbreviation).[8]

NEAREST						FARTHEST

List the stars in the above table in order of increasing brightness **as seen in the sky**.[8]

BRIGHTEST						DIMMEST

List the stars in the above table in order of increasing brightness if they were all **at the same distance** (*eg.* 32.6 ly) .[8]

BRIGHTEST						DIMMEST