Cosmic Object List for Astronomy 5

I. BRIGHT STAR LIST

Study Guide for Planetarium Sky Quiz
See *General Schedule of Activities* for Date and Time of Quiz

Star	Constellation	m	M	d(LY)	Sp/Class	Notable Feature
POLARIS		2.02	-3.6	430	F7Ib	Yellow Supergiant Cepheid Variable
	URSA MINOR	2.06	-0.87	126	K4III	Orange Giant Pole Star in 1100 BC
MIZAR and ALCOR		2.27 4.01	0.37 2.06	78.1 81.1	A2V A5V	Multiple Star System
	BÖOTES	-0.05	-0.31	36.7	K2III	High Proper Motion Orange Giant
SPICA		0.98	-3.55	260	B1V	Very Luminous Main Sequence Star
	SCORPIUS	1.02	-5.3	600	M1Ib	Very Luminous Red Supergiant, Binary
ALTAIR		0.77	2.2	16.8	A7IV/V	Rapidly Rotating In Summer Triangle
	LYRA	0.03	0.58	25.3	A0V	Main Sequence Star In Summer Triangle
DENEB		1.26	-8.7	3000	A2Ia	White Supergiant In Summer Triangle
	AURIGA	0.08	-4.8	42	G8III	Yellow-White Giant Multiple Star System
CASTOR		1.9	0.9	51.6	A1V	Main Sequence Star Multiple Star System
	GEMINI	1.16	1.09	33.7	K0III	Orange Giant
PROCYON		0.40	2.7	11.4	F5IV/V	Double Star with White Dwarf
	CANIS MAJOR	-1.44	1.4	8.6	A1V	Double Star with White Dwarf
RIGEL		0.10	-6.8	770	B8Ia	Multiple Star System Blue Supergiant
	TAURUS	0.87	-0.63	65	K5III	Orange Giant Irregular Variable
BETELGEUSE		0.87	-4.7	430	M2Iab	Very Large Variable Red Supergiant
	LEO	1.35	-0.53	77.5	B7V	Multiple Star System Located on Ecliptic

Last update of stellar coordinates: 12/28/2002

II. DEEP SKY OBJECTS

Study Guide For Part I of Final Exam
See *General Schedule of Activities* for Date and Time of Exam

See Astronomy 5 Web Site for Visual Review
Astronomy Web Site for Visual Review

M	Name	Constellation	Notable Characteristic
1	CRAB NEBULA		Supernova Remnant Endpoint of Stellar Evolution
8		SAGITTARIUS	Stellar Nursery Bright Nebula
13	HERCULES CLUSTER		Globular Star Cluster Population II Stars
16		SERPENS	Bright Nebula Stellar Birthplace
20	TRIFID NEBULA		Dark, Reflection, and Emission Nebula with Open Star Cluster
27		VULPECULA	Planetary Nebula After Giant Stage In Sun
31	ANDROMEDA GALAXY		Spiral Galaxy Visible To Unaided Eye @ 2.5 Million LY
42		ORION	Stellar Nursery Bright Nebula
44	BEEHIVE CLUSTER		Open Star Cluster Population I Stars
45		TAURUS	Open Star Cluster Young Population I Stars
51	WHIRLPOOL GALAXY		Face-on View of Spiral Galaxy With Companion Galaxy
57		LYRA	Planetary Nebula With Central White Dwarf
87	VIRGO A		Giant Elliptical E0/E1 Galaxy in Virgo Cluster @ 60 Million LY
104		VIRGO	Edge View of Spiral Galaxy
	DOUBLE CLUSTER 'H' & CHI		Two Clusters of Giant Stars 7000/8000 LYs
		ORION	Dark Nebula With Bright Nebula Background