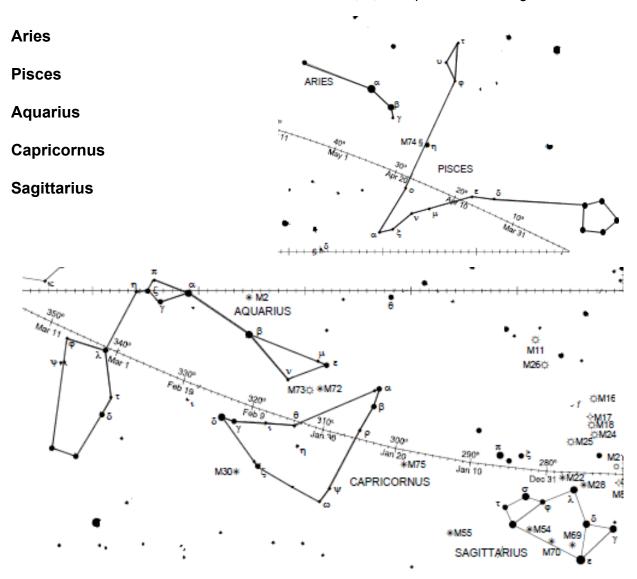
Unit 5: Galaxies & Cosmology

Learning goal: One thing I would like to learn about g	alaxies is:
The letter grade I want to earn for this unit is:	
What are three specific things I need to do in order to accomplish these goa	als? Did I do it?
1.	
2.	
3.	
Unit 5 Checklist	
□ KAMI- <i>Milky Way Scales</i>	
☐ 5.1 Galaxy Classification	
□ 5.2 Galaxies & The Big Bang	
Video Assignment: The Ever Expanding Universe	
☐ HW 5.3 Life in the Universe	
☐ HW 5.4 Practice Exam	
☐ Unit 5 Test & <i>Late work deadline (7:45am)</i>	
☐ Practice FINAL Exam	
☐ FINAL Exam (all constellations & stars learned)	
☐ Bonus Video: Star of Bethlehem (in class only)	
May 15th is the last day of Astronomy. Nothing aside from	n the final exam
and in-class bonus video will be accepted after 7:45am	

Name:	Period:					
How well do I understand Unit 5?						
Shade in each box completely to show your understanding level for each objective.						
3- I understand what is important. I can do	s sense when I see this in class, but I strug					
5A Galaxy Properties & The Milky Way						
I can classify galaxies as spiral, barred spiral	elliptical, or irregular.	1	2	3	4	
I can identify where new star formation is taking place within a galaxy.		1	2	3	4	
I can describe what is located at the center or	f most galaxies.	1	2	3	4	
I can describe the basic structure and feature	s of the Milky Way Galaxy.	1	2	3	4	
I can describe where the Sun is located in the	e Milky Way.	1	2	3	4	
I can define & identify the following terms: ha	lo, bulge, disk, nucleus, globular cluster	1	2	3	4	
5B Cosmology & Hubble's Law						
I can describe the four fundamental forces of	nature.	1	2	3	4	
I can identify evidence that supports the Big I	Bang Theory.	1	2	3	4	
I can compare the distances to other galaxies	s by comparing apparent sizes.	1	2	3	4	
I can compare the distances to other galaxies	s by analyzing galactic redshift.	1	2	3	4	
I can describe what a Quasar is, and why it is	important to astronomers.	1	2	3	4	
5C Life in the Universe						
I can describe how the Drake Equation is use	ed to predict intelligent life in the galaxy.	1	2	3	4	
I can describe what "habitable zones" are for	both stars and galaxies.	1	2	3	4	
I can describe the Urey-Miller Experiment and	d the Fermi Paradox.	1	2	3	4	
I can describe mankind's attempts to locate li	fe outside of the Earth.	1	2	3	4	
5D Constellations & Bright Stars						
I can identify each of the constellations and b semester.	right stars we have learned this	1	2	3	4	

Unit 5 Study Guide

Constellations: All of the constellations from units 1, 2, & 3, plus the following:



Galaxy Classifications:

- Elliptical
- Spiral
- Barred-Spiral
- Irregular

The Milky Way

- Disk
- Halo (globular clusters found here)
- Bulge
- Spiral arms

Hubble's Law & Galactic Redshift.

The Drake Equation

Evidence for Big Bang Theory (Cosmic microwave background radiation, Quasars far away, Hydrogen & Helium in the universe, dark sky at night, Hubble's Law--farther galaxies move away from us faster)

Four fundamental forces: Gravity, Electromagnetic, Weak, Strong

