5	TAR REVIEW /81pts nameHR						
1.	How does a star make energy?						
2.	How far does light travel in a year? (miles)						
3.	. How do we know what stars are made of if we can't take a sample?						
4.	 Put the steps in order: — Compare the dark lines to the spectrum lines of an atom — Point a spectroscope at a star — If all lines in the element match, that type of element is in the star — Record the black lines in the rainbow spectrum 						
5.	. A star seems really bright, but it isn't. It's just close to us. What type of brightness is this?						
6.	. A star is dim, but in fairness it is VERY far away and is massive. What is it's absolute brightness? (dim or bright)						
7.	Put the steps in order:						
	 Friction in core causes temperature to reach 10,000,000 c A protostar forms- it is not fusing yet, just hot Nebula (cloud of dust and gas) collapses under its own gravity fusion begins and a star is born 						
8.	What are the 3 ways stars are found? Define each.						
	Term definition						
9.	. Fill in the star colors:						
Sta	ar temperature 3500 degrees c= 5500 degrees c= 7500 degrees c= 11,000 degrees c= 20,000 degrees c=						

- 10. Which elements are made in stars?
- 11. Which elements are made in supernovas?

12. COMPLETE THE CHART:

12, 00 111 211 1112 011 1111					
star	Size	Brightness	Temperature	color	How long they last
Red dwarf					
Sun class					
Blue giant					

Blue	giant					
13. Wł	ny do bl	ue giants only	last millions of	years?		
14. Hc	w does	a red dwarf st	ar die?			
15. Hc	w does	a sun class sta	ar die?			
16. Wł	nich star	s are in the m	ain sequence?			
17. Wł	nat can	you say about	the size of mai	n sequence stars	?	
18. If t	the force	e of fusion is w	vinning, what w	ill a star do?		
19. If t	he force	e of gravity is	winning, what w	vill a star do?		
20. Hc	ow do yo	ou know a star	is "dying?"			
21. What do blue giants become when they die? (2 possible things) Big ones =						
				, then a		star
22. WI	nen a su	pernova occu	rs, what type of	star might form	in the center?	
23. How does a neutron form?						
24. Pu	t in orde	er:				
	hydrog tiny bit	en and hydro s of matter ar	_	nt at the surface ake helium in the nto energy	core	

25	. Forces in stars
	pushes out
	pulls in
26	. When forces are balanced star is ""
27	. When mass decreases there is less gravity, thus fusionit
28	. When fusion slows down, gravity forces start to win again andthe star
	Define galaxy –
2.	The farther away a galaxy is the it is moving away from us.
3.	About how many stars are in our galaxy?
4.	Write the name of the galaxy type below the picture



- 5. How do we know the universe is expanding? ______
- 6. Galaxies move in 2 ways. What are they?

 1 _____

7. If a space object is moving away from us, how does it appear (in terms of color)?

GALAXY DETAILS:

	Shape?	Age?	How common?	Types of stars in it?
elliptical				
pinwheel spiral				
barred spiral				
irregular				

- 8. What shape do all galaxies eventually become?
- 9. How many stars can a very large galaxy have?
- 10. When you look at a very distant galaxy, what type will it most likely be?
- 11. Why is the Milky Way named the way it is? (no need to tell the whole story).
- 12. What kind of galaxy do we live in?
- 13. How wide and thick is our galaxy?
- 14. Where are we located in our galaxy?
- 15. What is the name of our galaxy "neighborhood?"
- 16. What is the name of our galaxy "city?"
- 17. If all the superclusters are added together, what name do we give that?
- 18. If all the filaments are added together, what name do we give that?
- 19. What is the term given to the start of the universe?
- 20. What evidence do we have that the universe had a beginning?
- 21. About how long ago did the universe begin?
- 22. What is the name of the theory that says gravity will pull everything back into 1 point once again?
- 23. Given that the universe's currently estimated density is BELOW critical density, and the fact that galaxy expansion is SPEEDING UP, is the big crunch likely to happen?