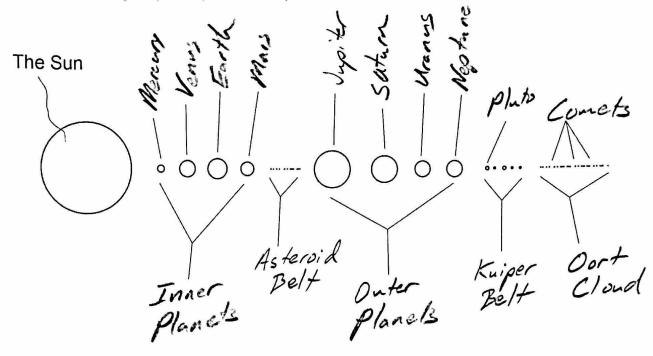
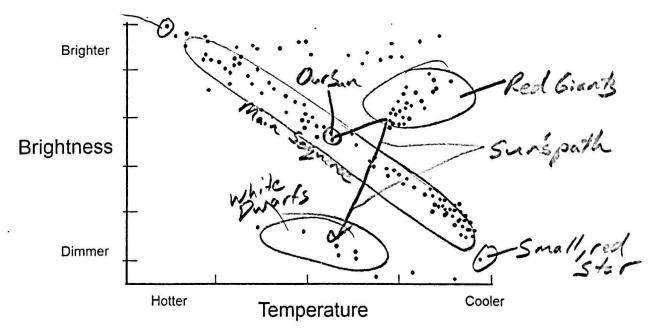
Label the regions (bottom) of the Solar System and all of the indicated individual objects (top).





- 2. Show/label all of the following on the diagram above.
 - a. Red giants
- b. White dwarfs
- c. The Main Sequence

- d. Our Sun
- e. A small, red star
- f. A blue star
- g. Our Sun's future path as it changes its position in the diagram (use a labeled arrow)

Write the correct letter here.	Terms		Answer Choices
6	Supernova	A	Any object that orbits something else. Most of these orbit planets or stars.
K	Nuclear Fusion	В	This is the main fuel that Stars use to produce energy.
B	Hydrogen	С	An area of such intense gravity that not even light can escape.
I	The Universe	D	Our Galaxy's Name
Н	Comet	Е	This is created inside main sequence stars.
\mathcal{D}	The Milky Way	F	This very dense object forms after a Supernova, if the mass left is less than 3 times the Sun's mass.
M	Nebula	G	The explosive death of a very large star
A	Satellite	Н	A "dirty snowball" that orbits the Sun; made of rock and ice
L	Light Year	I	All of space and everything in it
C	Black hole	J	Millions or billions of stars, dust, and gas, held together by gravity
F	Neutron Star	K	The process that produces the Sun's Energy
E	Helium	L	5,880,000,000 miles
J	Galaxy	М	A cloud of dust and ice, floating in space
P	Mass	N	Size
N	Volume	0	The force of gravity pulling an object toward a planet
Q	Density	Р	The amount of stuff in an object
0	Weight	Q	Crowdedness

This is how far light travels in a year.

/						
)	16.	Label the waves of light on the right with their color (or at least write the first letter of each color). Violet				
	17.	Roy 6. Dive Vellow Vellow Orange Longestranklenth Red Complete the diagram below to show which person sees a red shift. Label the person who sees the red				
		shift.				
		Sees red-shift				
	18.	The Big Bang theory states that the Universe started out as a tiny, extremely hot, extremely dense point of matter. This point of matter "exploded" outward and has continued to expand outward for the last 13.8 billion years. The Doppler Effect and the CMBR provide evidence for the Big Bang Theory.				
)		a. Explain how the Doppler Effect has shown that the Universe is expanding. All distant stars have red shifts,				
		50 they are moving away from us. b. How does the CMBR (Cosmic Microwave Background Radiation) serve as evidence for the Big Bang Theory? The CMBR is heat that is left Over from the Big Bang.				
	20.	Where did all of the matter in the Universe come from?				
		a. Where did the lightest elements (Hydrogen and some helium) come from? The Big Bang				
		b. Where did the medium weight elements (between the weights of helium and iron)?				
C		Fusion inside stars				
		c. Where did the heaviest elements (heavier than iron) come from?				

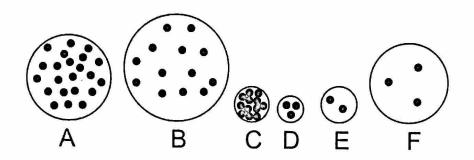
Supernovae

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	17.	Complete the diagram below to show which person sees a red shift. Label the person who sees the red shift.
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		a. Where did the lightest elements (Hydrogen and some helium) come from? The Big Bang
)		b. Where did the medium weight elements (between the weights of helium and iron)? Fusion inside Stars
		c. Where did the heaviest elements (heavier than iron) come from?

Supernovae

Examine the objects below.

- 21. Which object has the most volume? Least?
- 22. Which has the most mass? A Least? E
- 23. Which has the most weight? A Least? E
- 24. Which is most dense? C Least? F.



25. On the actual test, the last question will be either #13, 14, 15, or 16, from Part 1 of the Term 1 Review.

#13 asks about the changes that occur when a nebula begins to shrink

#14 asks about the changes that occur as a planet grows from tiny bits of dust to a full size planet

#14 asks about the changes that will occur when our Sun turns into a red giant

#15 asks about the changes that will occur when our Sun turns from a Red Giant to its next stage