Vame	Class	Date	
•		7 (= 1 = 1 1	1
Directed Re	eading 🕉 🖰 ·	d (EVEN	
Section: Stellar Ev			
a. because of to be because a ty c. because the	nomers not able to obse the movement of stars pical star exists for bil light of stars reaches E ar typically does not ex	lions of years Earth millions of years	later
CLASSIFYING STARS		_	
2. What is luminosity?			
	<u></u>		,
3. What is the Hertzspru	ing-Russell diagram?		
		7	
4. What is plotted on the diagram?	e horizontal axis and th	ne vertical axis of the	H-R 
<b>4</b> <i>G</i>		•	
		•	
5. What is the main seq	uence?		
		, .	<u> </u>
STAR FORMATION			•
6. What is a net a. a cloud of b. an explosi c. a false imp	gas and dust where a son where dust collects	star begins	
	f planets where a star b	egins	

ame		Class		Date _		
Directed R	eading <i>contin</i>	ued		• • • • • • • • • • • • • • • • • • •		2.5.5
7. A ir a b	according to Note that the control of the control o	Newton's law of a mass of an ole as the distance as the distance as the distance	oject e between tw e between tw e between tw	o objects de o objects inc o objects de	ecreases. creases. creases.	nal forc
		as the distanc		•	•	
8. What ha	ppens as parti	cles come toge	ether in a star	-forming ne	ebula?	
						-
9. What is	a protostar?	•			•	
					•	
		<u> </u>	· · · · · · · · · · · · · · · · · · ·	`\		
0. What ha	ppens as mor	e matter is pul	led into a pro	tostar?		
0. What ha	ppens as mor	e matter is pul	led into a pro	tostar?		
	· · · · · ·	out the onset o		tostar?		
	· · · · · ·			tostar?		
1. What is	important abo	out the onset o	f fusion?	à	r within a	a star?
1. What is	important abo		f fusion?	à	r within a	ı star?
1. What is	important abo	out the onset o	f fusion?	à	r within a	ı star?
1. What is 2. What ha	important abo	out the onset o	f fusion?	on the matte	· · · · · · · · · · · · · · · · · · ·	
1. What is  2. What hat  3. What desired the second	important about	out the onset o	f fusion?	on the matte	· · · · · · · · · · · · · · · · · · ·	
1. What is  2. What hat a force of	important about appens as graves oes the equilification of gravity do?	out the onset o	f fusion?  the pressure of the outward	on the matte	f radiatio	
1. What is  2. What hat a force of	important about appens as graves oes the equilification of gravity do?	out the onset o	f fusion?  the pressure of the outward	on the matte	f radiatio	
1. What is  2. What hat a force of	important about appens as graves oes the equilification of gravity do?	out the onset o	f fusion?  the pressure of the outward	on the matte	f radiatio	

fame	Class	Date	
Directed Reading co.	ntinued		
HE MAIN-SEQUENC	CE STAGE		
a. the fusio b. the stella	r equilibrium stage -sequence stage	ge in the life of a star?	
a. stays on b. stays on c. stays on	has the same mass as the the main sequence for a	about 10 million years. about 10 billion years. about 14 billion years.	
_EAVING THE MAIN	SEQUENCE		
17. When does a star	enter its third stage?		
			<u> </u>
18. What does increas	sed temperature from co	ntraction in the core car	ise the
helium core to do	?		
19. Describe the stars	known as giants and th	eir place on the H-R dia	gram.
			<b>,</b>
20 What are supergi	ents?		,
20. What are supergi	attis:		,
	•	· · · · · · · · · · · · · · · · · · ·	
	,		
THE FINAL STAGE	S OF A SUNLIKE STA	R	
a. a cloud b. a cloud c. a cloud	planetary nebula? I of gas that forms around I of gas that forms as a selection of energy that is hard I of helium that forms a	star is born to identify	

			Class		Date		
Directed	Reading co	ontinued		***			
/				· · · · · · · · · · · · · · · · · · ·			
22.	What is a v					:	
	a. a cool, e	extremely s	cattered core	of matter	leftover fr	om ar	old sta
	b. a hot, ex	ktremely sc	attered core	of matter le	eftover fro	m a re	ed giant
	c. a hot, ex	ktremely de	ense core of	natter lefto	ver from a	ın old	star
	d. a cool, o	extremely d	lense core of	matter left	over from	a red	giant.
23	Where are	white dwa	rfs located or	n the H-R o	liagram?		•
	a. in the lo		125 10 00000				
	b. in the lo						
*	c. in the u						• •
	d. in the u			•			
		7.	-			• .	
24			ite dwarf car	used by a p	ressure bu	ildup	is a
	a. red gian			••			
	b. black d		•		, .		
	c. super g	iant.		,	4		
	d. nova.				Å		
		destroy the		y thousand	s of times	brigh	ter.
	b. It may c. It may d. It may	destroy the cause it to cause it to	star. turn into a gi become man	ant. y thousand	s of times		
26. Descr	b. It may c. It may d. It may	destroy the cause it to cause it to	star. turn into a gi	ant. y thousand	s of times		
26. Descr	b. It may c. It may d. It may	destroy the cause it to cause it to	star. turn into a gi become man	ant. y thousand	s of times		
26. Descr	b. It may c. It may d. It may	destroy the cause it to cause it to	star. turn into a gi become man	ant. y thousand	s of times		
26. Desci	b. It may c. It may d. It may	destroy the cause it to cause it to	star. turn into a gi become man	ant. y thousand	s of times		
26. Desci	b. It may c. It may d. It may	destroy the cause it to cause it to	star. turn into a gi become man	ant. y thousand	s of times		
26. Desci	b. It may c. It may d. It may	destroy the cause it to cause it to	star. turn into a gi become man	ant. y thousand	s of times		
26. Desci	b. It may c. It may d. It may	destroy the cause it to cause it to	star. turn into a gi become man	ant. y thousand	s of times		
26. Desci	b. It may c. It may d. It may	destroy the cause it to cause it to	star. turn into a gi become man	ant. y thousand	s of times		1
	b. It may c. It may d. It may ribe a super	destroy the cause it to cause it to nova and he	star. turn into a gi become man ow it differs	ant. y thousand from a nov	s of times		ı
	b. It may c. It may d. It may ribe a super	destroy the cause it to cause it to nova and he	star. turn into a gi become man	ant. y thousand from a nov	s of times		
THE FIN	b. It may c. It may d. It may ribe a super	destroy the cause it to cause it to nova and he	star. turn into a gi become man ow it differs	ant. y thousand from a nov	s of times	dimn	ner.
THE FIN	b. It may c. It may d. It may ribe a super	destroy the cause it to cause it to nova and he	star. turn into a gi become man ow it differs  SSIVE STAR ses of more t	ant. y thousand from a nov	s of times	dimn	ner.
THE FIN	b. It may c. It may d. It may ribe a super	destroy the cause it to cause it to nova and he seems to see the seems to see the seems to see the see that the seems to see	star. turn into a gi become man ow it differs  SSIVE STAR ses of more the	ant. y thousand from a nov	s of times	dimn	ner.
THE FIN	b. It may c. It may d. It may ribe a super  IAL STAGE 7. Stars that produce a. with the	destroy the cause it to cause it to nova and he seems to make the seems to be supernovas to he help of a	star. turn into a gi become man ow it differs  SSIVE STAR ses of more t	ant. y thousand from a nov	s of times	dimn	ner.
THE FIN	b. It may c. It may d. It may ribe a super  IAL STAGE 7. Stars that produce a. with the	destroy the cause it to cause it to nova and he seems to make the seems to the seem	star. turn into a gi become man ow it differs  SSIVE STAR ses of more the	ant. y thousand from a nov  ss  han 8 times star.	s of times a.  the sun's	dimn	ner.

Vame_	Class	Date
Dire	ected Reading continued	
	<ul> <li>28. After the supergiant stage, massive stars contract force that is</li> <li>a. much less than that of small-mass stars.</li> <li>b. much greater than that of large-mass stars.</li> <li>c. much less than that of white dwarf stars.</li> <li>d. much greater than that of small-mass stars.</li> </ul>	t with a gravitational
29. W	Vhat happens when the core uses up its fuel?	
- 30. W	What is a neutron star?	
31. W	What is a pulsar?	
		1
32. D	Describe how a black hole forms.	
_	· ,	
33. V	Why is locating black holes difficult?	
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