History Channel's Universe Series: Life and Death of a Star

Name:	Period: Date:
1.	What is another word for the pillars of creation?
2.	How are stars like the sun born?
3.	What is a protostar?
4.	What are the two forces that keep the size of a star in balance? Diagram them using a free body diagram.
5.	What is the main sequence?
6.	How does the temperature of a star influence its color?
7.	How does the mass of a star affect the life span of a star?
8.	What kind of death will stars >10 times the mass of our sun go through?
9.	What kind of death will stars the size of our sun and smaller encounter?
10.	Why does a star run out of helium faster than it does when it burns hydrogen?
11.	What is a planetary nebula?
	History Channel's Universe Series: Life and Death of a Star
Name:	Period: Date:
1.	What is another word for the pillars of creation?
2.	How are stars like the sun born?
3.	What is a protostar?
4.	What are the two forces that keep the size of a star in balance? Diagram them using a free body diagram.
5.	What is the main sequence?
6.	How does the temperature of a star influence its color?
7.	How does the mass of a star affect the life span of a star?
8.	What kind of death will stars >10 times the mass of our sun go through?

- 9. What kind of death will stars the size of our sun and smaller encounter?
- 10. Why does a star run out of helium faster than it does when it burns hydrogen?
- 11. What is a planetary nebula?

- 12. What can electrons do for a star on the verge of death from gravitational collapse?
- 13. More than half of the stars in our galaxy are part of ______ systems.
- 14. What is a type 1a supernova?
- 15. What types of stars do type 2 supernovae come from?
- 16. Why is it not possible for a star to fuse iron? What happens the moment a star starts to fuse iron?
- 17. Where did all of the chemical elements on the periodic table come from?
- 18. What is a neutron star? How much does one teaspoonful of neutron star material weigh?
- 19. What is a pulsar?
- 20. What is a black hole?
- 21. Why are black holes black?
- 22. What is a globular cluster? Why are collisions between stars so much more likely in clusters?
- 23. What are brown dwarf stars? How are they similar to large planets like Jupiter?
- 12. What can electrons do for a star on the verge of death from gravitational collapse?
- 13. More than half of the stars in our galaxy are part of ______ systems.
- 14. What is a type 1a supernova?
- 15. What types of stars do type 2 supernovae come from?
- 16. Why is it not possible for a star to fuse iron? What happens the moment a star starts to fuse iron?
- 17. Where did all of the chemical elements on the periodic table come from?
- 18. What is a neutron star? How much does one teaspoonful of neutron star material weigh?
- 19. What is a pulsar?
- 20. What is a black hole?
- 21. Why are black holes black?
- 22. What is a globular cluster? Why are collisions between stars so much more likely in clusters?
- 23. What are brown dwarf stars? How are they similar to large planets like Jupiter?