**The Universe -Life and Death of a Star**

As you watch the each of the videos, answer the following questions:

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| **The Universe - Life and Death of a Star** | |
| Questions | Notes |
| What information have scientists been able to learn about the life cycle of a star? | 1. 2:30 What are the pillars made of in the “Pillars of Creation”? 2. 3:20 What is the most important force in astronomy? 3. 4:30 What is the early phase of the star called once the gas and dust begin to coalesce? 4. 7:25 At what stage in star development does a star spend most of its life? 5. 7:50 What characteristic indicates how hot a star is? 6. 8:15 Small, cool red stars are called \_\_\_\_ \_\_\_\_\_\_\_\_. 7. 9:05 Large, blue stars are how much larger than the Sun? 8. 9:25 Which star lives the longest, the star with the higher mass or the star with the lower mass? 9. 11:50 What will happen to our star once all of its fuel has been burned? 10. 17:45 What is the phase of a star called where it simply cools and fades away? 11. 23:20 Why do most stars not necessarily die in the time we would normally expect them to? 12. 24:30 What is the result of the collapse of the iron core? 13. 26:15 Where did all the elements in our bodies come from? 14. 28:00 About how big (or small) are neutron stars? 15. 36:45 What would happen to our sun if a dense white dwarf collided with it? 16. 38:35 To what does the show compare a globular cluster? 17. 39:50 What do they call the blue stars found in old globular clusters? 18. 40:25 Where does Joshua Barnes think they come from? 19. 41:40 At what stage of a star’s life are black holes, white dwarfs, etc.? 20. 42:00 What is a brown dwarf? |
| Summary (What is the **BIG** idea presented in the video): | |