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

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

|  |
| --- |
| **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): |