Cosmos: A Spacetime Odyssey – Episode 8

**SISTERS OF THE SUN**

**“Nothing lasts forever… Even the stars die”**

[If time permits, please review Symphony of Science’s *Glorious Dawn*.]

**1. We pulled the stars from the skies and brought them down to Earth. But when we turned on all these lights, we lost something precious:**

**2. Humans were not the fastest or strongest of the animals we competed**

**against, but we did have one thing going for us:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**One aspect of that is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ recognition.**

**3. The Pleiades**

**• Each of them is \_\_\_\_\_\_\_\_\_\_ times brighter than our Sun.**

**• The brightest one is \_\_\_\_\_\_\_\_\_\_ times brighter than our Sun.**

**• They’ve been used as a/n \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test all over the world.**

**• They are related to a Celtic holiday now known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**• Are connected to a mythical origin story of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Tower.**

**4. Pickering’s “Computers” mapped and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the stars.**

**• Annie Jump \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was the leader of the team.**

**• Henrietta Swan Leavitt discovered the law astronomers use to measure**

**5. English astronomer Cecilia Payne had to emigrate to**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in order to study astronomy.**

**6. When Russell dismissed Payne’s conclusions on the composition stars,**

**A. she stood her ground and pushed ahead without his approval.**

**B. amended her conclusions, suggesting they were in error.**

**C. abandoned the pursuit of academics and moved to Downton Abbey.**

**7. The stars of the Pleiades are in the process of moving**

**8. The super hot gas in the Sun’s interior pushes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**while its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pulls it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**9. At present, the Sun fuses hydrogen. In a future phase, it will fuse**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**10. The Sun will eventually devour**

**The Sun’s final state will be as a white \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**11. The fate of a blue giant like Rigel is**

**The huge star, Alnilam, will collapse to become a**

**12. The aboriginal people of the Australian outback saw patterns in the**

**13. Eta Carinae pours out \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ times as much light as our own Sun.**

**It will eventually die in a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**14. All the atoms that make up our world were made**

**15. Will Orion eventually catch the Pleiades? Why/Why not?**

**16. From a planet orbiting a star in a distant globular cluster, a still more glorious dawn awaits: not a sunrise, but a**

**…the rising of the**