

NOTE PROMPTS FOR COSMOS – EPISODE IX:

The Lives of the Stars

The events in one star can influence a world halfway across the galaxy and a billion years in the future

1. Apple Pie Drama!

If you wish to make an apple pie from scratch, you must first...

About how many times do you need to halve the pie slice to get to a single atom?

Matter is composed chiefly of...

2. Big Numbers.

Which popular search engine's name is derived from Edward Kasner's nephew's name for 10^{100} ?

What's the easy way to write a _____-plex?

3. The Atoms

How many naturally distinct kinds of atoms are found on Earth?

Which are liquid at room temperature?

The more familiar an element is...

4. The neutron, electron, and proton were discovered where?

Electrons determine the _____ of the element.

What holds the nucleus together?

5. What percent of the matter of the universe is made of hydrogen and helium?

Atoms are made in...

6. What is the temperature at the core of a star?

How many Earth's could fit inside the sun?

7. Stars live in the interval between two _____

What accounts for the
Outward pressure:

Inward pressure:

8. Three ways an ordinary star can die

a.

b.

c.

9. The fate of the earth:

Our sun is probably a _____-generation star.

10. What is the brand name on the scale of Sagan's lava tube Geiger counter?

How bright was the crab nebula supernova?

11. What could a ball of neutron star matter do if dropped near the surface of the earth?

12. Gravity can be understood as a...

13. Walt Whitman: A blade of grass is the journeywork of _____

1990 Update: Physical evidence is mounting that planets...