

## Review

- What are the properties of a first generation star? In particular, describe which heavy elements they made and how they did it. How are they different than stars today?
- What are the properties of a second generation star? In particular, describe which heavy elements they made and how they did it.
- How do stellar properties impact n<sub>e</sub>?
- What does the presence of complex molecules in interstellar space tell us?
- Describe the techniques that astronomers use to search for planets around stars? What are the limitations?

## Review

- Describe the processes for forming a star and its planets.
- Why does a disk form?
- The planets and the Sun formed from the same interstellar cloud. Discuss reasons why the chemical abundances of the inner planets are different than the outer planets.
- What were the early conditions of the Earth?
- Compare the chemical composition of life to the chemical composition of: a) the crust of the Earth; b) Earth's oceans; and c) the Sun.

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• What determines if a planet is in the Habitable Zone?

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- What is HONC and how are they used?
- Why is Carbon important?
- What was the time scale of life on Earth?
- What does "left-handed" life mean?
- What are monomers and polymers? Examples?
- Discuss DNA and RNA. How do they function to assemble proteins that carry and encode the genetic code?
- What are possible scenarios for synthesis of monomers and polymers?
- What was the Miller-Urey experiment and why is it thought to be important for life? Include the role of a reducing atmosphere in your discussion.
- There will be questions on the presentations (true/false).



Feb 28, 2008