

## LIFE IN THE UNIVERSE — AST 07

### HW #05

**Complete sentences, no txt spelling in Ur wrk! :)**

**Include your name and 2-digit ID#.**

**Due at the beginning of the next class.**

**Machine-printed only; no email, no handwritten.**

- Q1: RNA is different from DNA in a number of ways, but in specific, how is RNA a simpler molecule than DNA?
- Q2: Suppose we discovered life on Mars, and while it had all the familiar cellular functions, suppose the only molecule it used to store genetic information was RNA. Would you call this a DNA world, an RNA world, or something else?
- Q3: Why do scientists suggest that an RNA world may have preceded our current DNA world?
- Q4: What, and when, was the Cambrian Explosion?
- Q5: What factors may have caused the Cambrian explosion? (Describe at least four.)

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