

LIFE IN THE UNIVERSE — AST 07

HW #09

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.

P356

- Q1: By definition, the molecule H_2O must be able to exist in what phase, on the surface of a habitable planet?
- Q2: What is the *moist greenhouse effect*? (Note, of course, that the “moist greenhouse effect” is different from the “greenhouse effect.”)
- Q3: Suppose you gave a planet an extremely thick CO_2 atmosphere, so it had a strong greenhouse effect. What would happen to this atmosphere, if you moved it so far from the sun that it was farther than the outer boundary of the habitable zone?
- Q4: What do we mean by *continuously habitable zone*?
- Q5: Why is “global climate change” a more appropriate term describing our Earth’s changing surface/atmospheric conditions than “global warming”?

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