

Name: _____

Date: _____

Period: _____

QUESTIONS FOR CHEMMATTERS ARTICLE: "LINUS PAULING: AMERICAN HERO"

Read the article, then answer these questions on a piece of notebook paper.

1. At the time Linus Pauling was learning chemistry in college, what was the current and widely accepted model of chemical bonding called and how did it work?
2. Pauling thought that rather than the black and white definition of ionic and covalent bonds, bonds could be described on a continuum. What is the reason Pauling used to explain this theory?
3. What is the weak interaction among the N-H group of one amino acid and the C=O group of another amino acid called? What affect does this weak interaction have on the shape of the protein chain?
4. What, specifically, was Pauling's main concern about atomic bombs: e.g., the sheer magnitude of the destruction, the large amounts of heat given off in the explosion, something else entirely?
5. What were the consequences of his anti-nuclear, anti-war stance?
6. To what areas of human endeavor did Pauling contribute significantly?

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