

DNA Structure Clues

Name _____

Per. ____ Date _____

Clue 1:

1. What patterns do you see in regards to the Nitrogen bases?

2. Based on the patterns shown in this clue.....

If there were 50 "T" Nitrogen bases, then there would be _____ " _____" Nitrogen bases.

AND

If there were 10 "C" Nitrogen bases, then there would be _____ " _____" Nitrogen bases.

3. To sum this up we can say that the base-pairing rule is....

"T" and " _____" will always pair having _____ amounts in the DNA strand.

AND

"C" and " _____" will always pair having _____ amounts in the DNA strand.

Clue 2:

4. What patterns do you see in regards to the "backbone"?

5. The _____ and _____ alternate to make up backbone. This is called the backbone because _____

6. What is a nucleotide made up of?

7. What is the difference between a nitrogen base and a nucleotide?

8. What connects nucleotides together?

9. What connects nitrogen base pairs together?

10. Which part of the nucleotide do you think carries that genetic information? Explain

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Clue 3:

11. Can you find a pattern between the X-ray and DNA double helix below? Explain

12. Does the base-pairing rule fit the DNA double helix model?

13. Does the Sugar-Phosphate backbone fit the DNA double helix model?

14. What have you learned about DNA structure?

15. Why would you imagine the discovery of this structure be important?