Name: Date: Block:

1. DNA is a long molecule made up of units called: The monomer of Nucleic Acids.
2. There are three basic parts to a nucleotide, what are they?

a.

b.

c.

1. In regards to structure, what is the difference between purines and pyrimidines?
2. What two bases are purines?
3. What two bases are pyrimidines?
4. The backbone of the DNA chain is formed by what?
5. How do the nitrogenous bases stick from the backbone chain?
6. Who discovered that the percentage of guanine and cytosine were equal in any sample of DNA?
   1. Rosalind Franklin b. Erwin Chargaff c. Avery Oswald
7. In 1950, who studied DNA using x-ray diffraction?
8. Rosalind Franklin took a picture of something very significant in the science world that contributed to the knowledge of DNA, what was it?
9. What two scientist ultimately got credit for Franklin’s work? What was their contributions to science?
10. In 1958 Franklin passed away, what did she die from, and what was the speculation of the cause of this disease?
11. A looks like a twisted staircase. The and make up the backbone and the nitrogenous bases make the “rungs” of the ladder.
12. What is the bond between the bases called?