

**Questions:**

1. Why is the nucleus called the "control center" of the cell? \_\_\_\_\_

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2. What is a gene? \_\_\_\_\_

3. Where in the cell are chromosomes located? \_\_\_\_\_

4. DNA can be found in what **organelles**? \_\_\_\_\_

5. What two scientists established the structure of DNA? \_\_\_\_\_

6. What is the shape of DNA? \_\_\_\_\_

7. What are the sides of the DNA ladder made of? What are the rungs made of?

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8. What three parts make up a single nucleotide:

\_\_\_\_\_

9. What are the 4 bases that make up the rungs of the DNA ladder? \_\_\_\_\_

10. What sugar is found in DNA? \_\_\_\_\_

11. How do the bases bond together? A bonds with \_\_\_\_\_ G bonds with \_\_\_\_\_

12. How do some cells become brain cells and others become skin cells, when the DNA in ALL the cells is exactly the same. In other words, if the instructions are exactly the same, how does one cell become a brain cell and another a skin cell?

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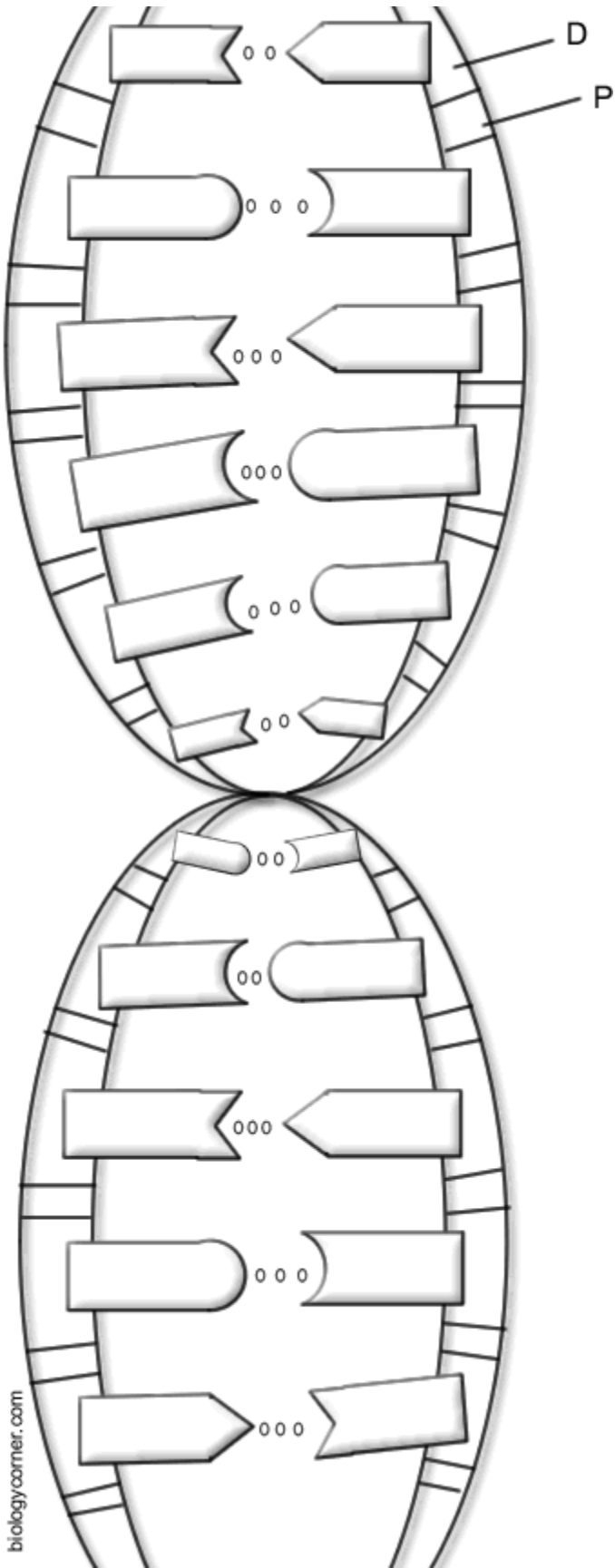
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13. Why is DNA called the "Blueprint of Life"?

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# DNA - The Double Helix



## NUCLEOTIDES

