

Relationship of DNA & Chromosomes Test

Part 1 – Multiple Choice: Choose the best answer for each question.

- DNA stands for:
 - Deoxyribonucleic Acid
 - Dynamic Nuclear Acid
 - Double Nitrogen Atom
 - Deoxynitrogen Acid
- Chromosomes are found in the:
 - Cell membrane
 - Cytoplasm
 - Nucleus
 - Ribosome
- What is the relationship between DNA and chromosomes?
 - Chromosomes are made of DNA
 - DNA is made of chromosomes
 - They are unrelated
 - Chromosomes destroy DNA
- Genes are:
 - Tiny organs
 - Sections of DNA that control traits
 - Types of cells
 - Plant roots
- Humans normally have how many chromosomes?
 - 23
 - 92
 - 46
 - 12
- Which structure carries hereditary information?
 - DNA
 - Water
 - Oxygen
 - Protein only
- Chromosomes become visible during:
 - Digestion
 - Cell division
 - Photosynthesis
 - Respiration

8. Traits passed from parents to offspring are called:
- Acquired traits
 - Inherited traits
 - Learned traits
 - Temporary traits
9. Which of the following is TRUE?
- DNA is found inside chromosomes
 - Chromosomes are found inside DNA
 - Genes are larger than chromosomes
 - DNA is not related to heredity
10. The main job of DNA is to:
- Pump blood
 - Carry genetic instructions
 - Digest food
 - Produce sunlight

Part 2 – Fill in the Blank

Word Bank

Genes

nucleus

DNA

cell division

chromosomes

traits

heredity

46

11. _____ contains the genetic instructions for living things.
12. _____ are threadlike structures made of DNA.
13. Sections of DNA that control characteristics are called _____.
14. Chromosomes are located in the _____ of the cell.
15. The passing of traits from parents to offspring is called _____.
16. Humans normally have _____ chromosomes.
17. Eye color and hair color are examples of _____.
18. Chromosomes are easiest to see during _____.

Part 3 – Matching: Match each term with the correct definition.

Column A

19. DNA

20. Gene

21. Chromosome

22. Nucleus

23. Heredity

Column B

a. Structure that carries DNA

b. The control center of the cell

c. Molecule containing genetic information

d. A section of DNA that controls a trait

e. Passing traits from parents to offspring