

Part 1: Interactive DNA Discovery

Use any of the links below to complete the Interactive DNA Discovery activity on the 23andMe website. Click *Get Started* to begin and *Next* to move through the activity. As you move through the activity, answer the following questions.

Full URL: <https://education.23andme.com/dna-discovery/#>

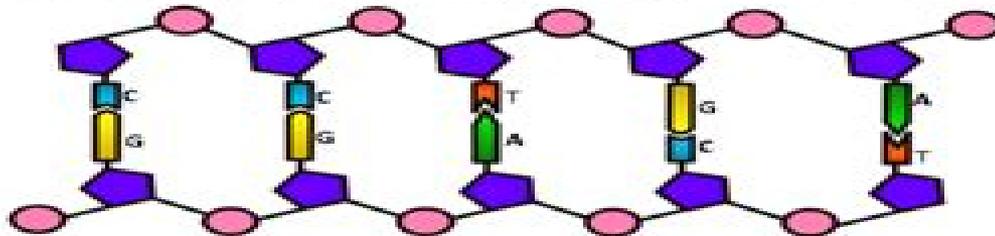
Tiny URL: <https://tinyurl.com/s4te8ze>

- In which organelle is most DNA found? Nucleus
- How many chromosomes do you inherit from your father? 23 How many from your mother? 23
- If you are male, what combination of chromosomes do you have? XY If female? XX
- What does DNA contain instructions for? Making proteins and RNA
- What is the role of proteins? Carry out tasks necessary for building and maintaining the cell
- What are the sections of DNA that contain instructions for making proteins called? Genes
- Does all of an organism's DNA code for proteins? No
- What does T pair with? A What does G pair with? C
- If a DNA sequence is A-T-G-A-C, write the sequence of base pairs that would pair with it. T-A-C-T-G
- What percent of humans' DNA sequences are identical? 99.9%
- Can traits be determined by more than one gene? Yes
- What factors influence your traits? Genetics, lifestyle, and environment

Part 2: DNA Structure and Function Video

Use any of the links below to watch the DNA Structure video by Teachers Pet. As you watch, answer the following questions. Tiny URL: <https://tinyurl.com/m55c4m> Full URL: <http://www.youtube.com/watch?v=CLCRtkW6wu0>

- What does DNA stand for? Deoxyribonucleic acid
- What does the information contained in DNA determine? Inherited characteristics
- What does DNA code for? Proteins
- What are the monomers of DNA called? Nucleotides
- What are the four nitrogen bases contained in DNA?
 - Adenine
 - Cytosine
 - Thymine
 - Guanine
- What phrase is used to describe the structure of DNA? Double helix
- What is the backbone of DNA composed of? Alternating sugar and phosphate molecules
- Which base pairs with adenine? Thymine Which base pairs with cytosine? Guanine
- Label the phosphate and deoxyribose sugar. Then write the first initial of the complementary base pairs.



Write the full name of each base below its picture.



Helpful Hint!

Remember that Apples (A) go in a Tree (T) and Cars (C) go in a Garage (G).

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