

**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/#>

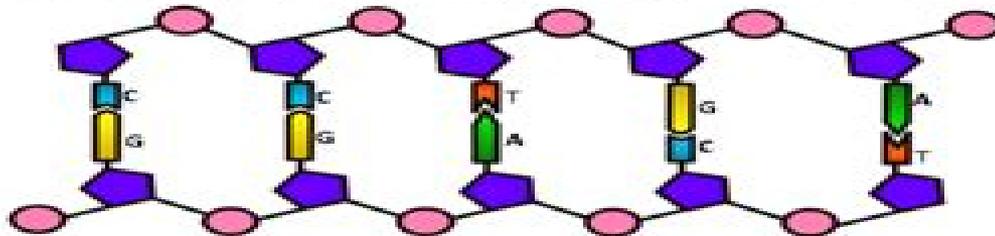
Tiny URL: <https://tinyurl.com/5dte8zje>

- 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/n55c4m> 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).

# Student Webquest Dna Extraction Answer Key

**S Marginson**



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