

## Handout (Answer Key)

- Outline your hands on a piece of paper and use ink to create your fingerprints. Use your fingerprints to fill in the table below. You can also compare your fingerprints with a family member's, are they similar?



Whorl pattern

Loop pattern

Arch pattern



Left

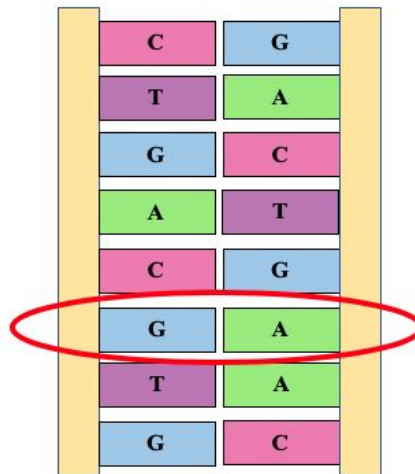
Right

Left Hand Fingers:	Type of Fingerprint: (Whorl, loop, arch)	Right Hand Fingers:	Type of Fingerprint: (Whorl, loop, arch)
Left finger #1:		Right Finger #1:	
Left Finger #2:		Right Finger #2:	
Left Finger #3:		Right Finger #3:	
Left Finger #4:		Right Finger #4:	
Left Finger #5:		Right Finger #5:	

2. Match the base pairs by drawing a line to the matching pair below:



3. Circle the ‘mutation’ (improper matching of base pairs) in the genetic code below:



4. Complete the multiple choice below:

What affects the shape of your fingerprints?

- a. Genetics
- b. Nothing it is just random
- c. Environmental factors in the womb
- d. Both a and c

What is the rarest type of fingerprint?

- a. Whorl
- b. Loop
- c. Arch
- d. They are all equally as common

What part of the cell holds most of the DNA?

- a. Mitochondria
- b. Vacuole
- c. Nucleus
- d. Cytoplasm