

LESSON 2

HUMAN GENOME

influences

Traits

LESSON 1

2 copies in every

Cell

makes up

Tissues

make up

Organs

make up

Body

manifests

Nitrogenous Bases

Adenine (A)

Guanine (G)

Thymine (T)

Cytosine (C)

basepairs with

basepairs with

4 types of

can form

Deoxynucleotides

Basepairs

1 copy is made of 3 billion

genome divided into

Nuclear Genome

Mitochondrial Genome

Many per cell

1 circular chromosome

Helical Shape

Double Stranded

One per cell

23 Pairs of Linear Chromosomes

22 Pairs called Autosomes

Numbered based on size

1 Pair called Sex Chromosomes

XX for females

XY for males

made of

wraps around

Histone Proteins

Nucleic Acid

two types

composed of

DNA

Double Stranded

by

LESSON 3

RNA

