

Grade 9:

Activity 2:

Chromosomes and Meiosis:

1. Which of the following characteristics is a trait you inherit from your parents?

Brown eyes

scar on the arm

short hair

broken arm

2. Choose the correct answer for each statement below.

A: The genetic material of all organisms is:

B: The pieces of DNA that contain the information cells use to make proteins:

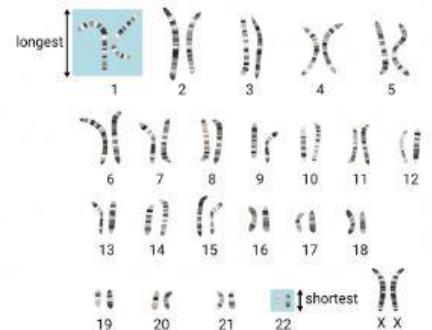
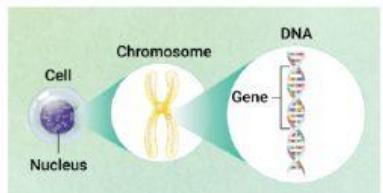
C: DNA coils on proteins and forms structures called:

D: In humans, chromosomes are found in the _____ of cells.

E: A _____ is an image of an organism's

Chromosomes.

F: Human body cells have _____ chromosomes arranged in 23 pairs.



G: A karyotype shows the chromosomes as they appear in the metaphase of:

H: An _____ is a chromosome that is not a sex chromosome.

I: Humans have _____ pairs of autosomes.

J: Males have one X chromosome and one Y chromosome:

K: Females have two X chromosomes:

L: _____ are chromosomes with the same shape and size

M: Body (somatic) cells are _____

N: Diploid cells are represented by _____

O: Humans have _____ chromosomes in each diploid cell.

P: Examples of body cells are:

