

Name:

Date:

Student Exploration: Human Karyotyping

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: autosome, chromosomal disorder, chromosome, genome, karyotype, sex chromosome

Prior Knowledge Question (Do this BEFORE using the Gizmo.)

A **chromosome** is a rod-shaped structure made of coils of DNA. Most human cells have 23 pairs of chromosomes.

1. Why do you think humans have two sets of 23 chromosomes? (Hint: Where did each set come from?)

2. How do you think different people's chromosomes would compare?

Gizmo Warm-up

Scientists use **karyotypes** to study the chromosomes in a cell. A karyotype is a picture showing a cell's chromosomes grouped together in pairs.

In the *Human Karyotyping* Gizmo, you will make karyotypes for five individuals. Take a look at the SIMULATION pane. Use the arrows to click through the numbered list of chromosomes at the bottom right of the pane.

1. How does the appearance of the chromosomes change as you move through the list?

2. Examine the chromosomes labeled **x** and **y**. How do these two chromosomes compare?



Student Exploration Human Karyotyping Gizmo

Raffaela Di Napoli

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

Student Exploration Human Karyotyping Gizmo:

Embracing the Track of Term: An Emotional Symphony within **Student Exploration Human Karyotyping Gizmo**

In some sort of consumed by screens and the ceaseless chatter of instant transmission, the melodic elegance and mental symphony developed by the written word usually fade in to the backdrop, eclipsed by the persistent sound and distractions that permeate our lives. But, nestled within the pages of **Student Exploration Human Karyotyping Gizmo** a marvelous literary treasure full of fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this fascinating masterpiece conducts readers on a psychological journey, skillfully unraveling the concealed songs and profound affect resonating within each carefully crafted phrase. Within the depths of the moving review, we shall discover the book is central harmonies, analyze its enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

https://about.livewellcolorado.org/public/detail/Documents/The_Amish_Blacksmith_The_Men_Of_Lancaster_County_Book_2.pdf

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