

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?



Answers For Human Karyotyping Gizmo

Zhe Xu

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

Answers For Human Karyotyping Gizmo:

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Answers For Human Karyotyping Gizmo**

In some sort of inundated with displays and the cacophony of quick connection, the profound power and psychological resonance of verbal beauty often fade into obscurity, eclipsed by the regular assault of sound and distractions. However, located within the musical pages of **Answers For Human Karyotyping Gizmo**, a fascinating perform of literary elegance that pulses with fresh emotions, lies an remarkable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, that magical opus guides visitors on a psychological odyssey, gently revealing the latent possible and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is main themes, dissect their fascinating writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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