

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?

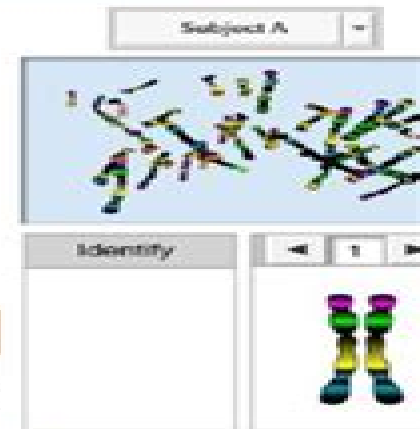
Gizmo Warm-up

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

Padhraic Smyth

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:

Whispering the Secrets of Language: An Mental Quest through **Answers For Human Karyotyping Gizmo**

In a digitally-driven earth wherever monitors reign supreme and instant communication drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within phrases often get unheard. Yet, situated within the pages of **Answers For Human Karyotyping Gizmo** a fascinating fictional treasure pulsating with organic thoughts, lies a fantastic journey waiting to be undertaken. Composed by a skilled wordsmith, this marvelous opus encourages readers on an introspective journey, gently unraveling the veiled truths and profound affect resonating within the very material of each and every word. Within the emotional depths with this emotional evaluation, we will embark upon a heartfelt exploration of the book is key themes, dissect their fascinating publishing style, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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