

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

SA Adler



Answers For Human Karyotyping Gizmo:

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Answers For Human Karyotyping Gizmo**

In a world inundated with displays and the cacophony of immediate interaction, the profound power and emotional resonance of verbal artistry often diminish in to obscurity, eclipsed by the constant assault of noise and distractions. However, set within the lyrical pages of **Answers For Human Karyotyping Gizmo**, a charming function of fictional beauty that impulses with natural thoughts, lies an unique journey waiting to be embarked upon. Published with a virtuoso wordsmith, that exciting opus courses viewers on an emotional odyssey, gently revealing the latent potential and profound influence stuck within the elaborate web of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is main subjects, dissect their captivating publishing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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