

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Student Exploration: Human Karyotyping

**Vocabulary:** autosome, chromosomal disorder, chromosome, 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.

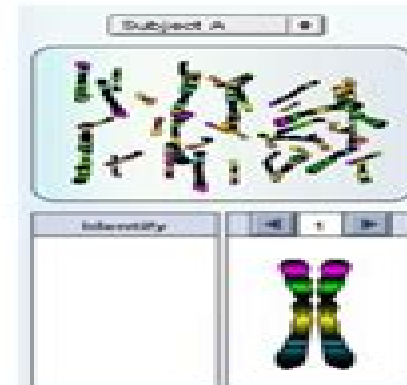
- Why do you think humans have two sets of 23 chromosomes? (Hint: Where did each set come from?) We have 2 sets because we get 1 set from each parent
- How do you think different people's chromosomes would compare? I would think that they would be really different

### 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.

- How does the appearance of the chromosomes change as you move through the list? They become a lot smaller than they were in the previous one
- Examine the chromosomes labeled **x** and **y**. How do these two chromosomes compare? X is really big, and Y is really small. There is also just one instead of it being a pair



# Student Exploration Human Karyotyping Answer Key

**Padhraic Smyth**



**Student Exploration Human Karyotyping Answer Key:**

*The Search for Solutions Teaching Guide (abridged)* Illinois State Board of Education (1973- ),1980

## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Student Exploration Human Karyotyping Answer Key**

In a world inundated with displays and the cacophony of immediate interaction, the profound power and mental resonance of verbal beauty often fade into obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, nestled within the musical pages of **Student Exploration Human Karyotyping Answer Key**, a interesting perform of fictional brilliance that impulses with fresh emotions, lies an remarkable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this mesmerizing opus instructions readers on a mental odyssey, softly exposing the latent potential and profound impact stuck within the complicated internet of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is key styles, dissect their fascinating writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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