Activity A:

Get the Gizmo ready:

Male and female karyotypes

Click Reset.

Student

# Exploration: Human Karyotyping

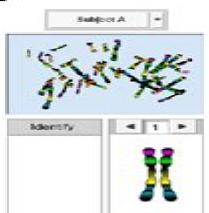
Vocabulary: autosome, chromosomal disorder, chromosome, genome, karyotype, sex chromosome

Gizm o 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. Look at the SIMULATION pane in the Gizmo (pictured to the right). 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?



Examples the chromosomes labelled 'x' and 'y' – how do these chromosomes compare?





# **Human Karyotyping Actitivy B Gizmo Answers**

**Ying-Ying Zheng** 

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