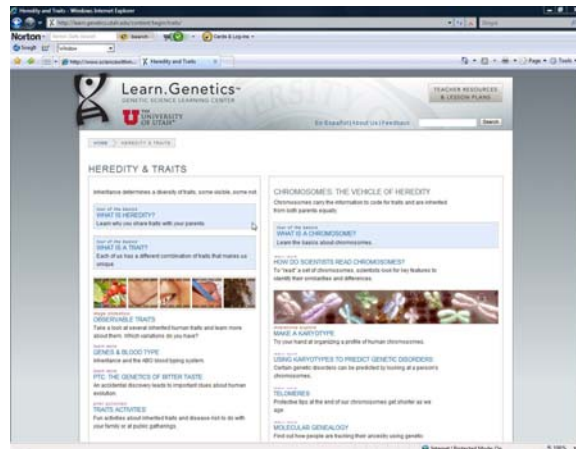


Understanding Chromosomes and Karyotypes

<http://learn.genetics.utah.edu/content/begin/traits/>



Directions: Working in groups (3-4), go to the above website. Once you are at the website, complete the following:

- Click on the link labeled *“What is a chromosome?”* and read the information in the window to gain a general idea of chromosomes. After reading this information, click on the “x” in the upper right-hand corner of the viewing window. This will bring you back to the homepage.
- Click on the link labeled *“How do scientists read chromosomes?”* and read the information on the page. When you are done reading, you should complete the activity *“Can you identify the matching chromosomes?”* on the lower-right side of the page. After you complete the activity you should return to the homepage by hitting the back button in your browser or by clicking on the “Heredity and Traits” link in the top-left corner of the page.
- Click on the link labeled *“Making a karyotype”* and read the information at the top of the page. After reading the information, complete the *“Matching Up Chromosomes in a Karyotype”* activity. After you complete the activity you should return to the homepage by hitting the back button in your browser or by clicking on the “Heredity and Traits” link in the top-left corner of the page.
- Click on the link labeled *“Using karyotypes to predict genetic disorders”* and read the information. Be sure to click on the animations as you move down the page. Finally, complete the interactive quiz at the bottom of the page to see how much you learned.