

1. [http://www.biology.arizona.edu/human\\_bio/activities/karyotyping/karyotyping.html](http://www.biology.arizona.edu/human_bio/activities/karyotyping/karyotyping.html)

2. This lesson is a simulation of human karyotyping using images of chromosomes from actual human genetic studies. The will be able to arrange chromosomes into a completed karyotype, and interpreting the findings just as if the were working in a genetic analysis program. Karyotype analyses are done over 400,000 times per year in the U.S. and Canada. Students can imagine that they were performing these analyses for real people, and that the conclusions could drastically affect lives.

1. [http://www.biology.arizona.edu/cell\\_bio/activities/cell\\_cycle/cell\\_cycle.html](http://www.biology.arizona.edu/cell_bio/activities/cell_cycle/cell_cycle.html)

2. This activity is for students to see all stages of the cell cycle first hand. In order to examine cells in the tip of an onion root, a thin slice of the root is placed onto a microscope slide and stained so the chromosomes will be visible. The cells you'll be looking at in this activity were photographed with a light microscope and put on the computer so students can see.