

SEE WHAT LIFE SCIENCE IS ALL ABOUT  
K-3

CELLS / GENETICS:

Plant and animal cells

- Plant cells: [observational activity]
  - onion skin
  - cover slip
  - slide
  - microprojector
  1. Peel off a thin piece of onion membrane, lay it on the slide.
  2. Add 1 drop of iodine.
  3. Cover with a cover slip (drop one end of cover slip first to spread liquid out evenly).
  4. Notice the hard cell wall. Also look for nucleus (red dot) in each cell.
  
- Animal cells: [observational activity]
  - cheek cells (epithelial cells)
  - flat toothpick
  - slide
  - cover slip
  - tincture of iodine
  - microprojector
  1. Scrape inside of cheek lightly with toothpick, smear cells on slide.
  2. Add 1 drop of iodine and cover slip.
  3. Notice that these cells don't have any particular shape as there is no hard outer cell wall like plant cells have.

Cell model

- Model #1: [observational activity]  
plastic bag with water and small water balloon inside to represent the nucleus.

Cell division

- Model #2 - How cells divide: [observational activity]  
Large bag with a smaller bag inside. In the smaller bag is a "secret message" (piece of paper folded in half - see drawing), plus another large and small plastic bag.

