



Here are the overviews for the four science suitcases that we have for check-out by teachers (Enzyme Instigator, Organelle Extravaganza, Photosynthesis Suitcase, and Evolution Suitcase):

Overview - Enzyme Instigator (Instruction Booklet, Student Booklet, CD, Lab Supplies)

- 1) Pre-Quiz
- 2) Homework Handout
- 3) Animation Video (questions)
- 4) Manipulable hands-on model - teacher demo (enzyme & 3 substrates)
- 5) Jeopardase game
- 6) 2 Labs a) (Milk & Renin) b) (Gelatin & Fruit Juice) Roles of pH and temperature enzyme activity
- 7) Post-Quiz

Overview- Organelle Extravaganza

- 1) Pre-Test
- 2) Animation Video (23 minutes) (questions)
- 3) Protein Production Game
- 4) 3 Labs a) Plant vs. Animal Lab (onion skin & cheek cells)
- b) Paper Chromatography (spinach & acetone)
- c) Feeding Paramecia Lab
- 5) Post-Test

Overview- Lights, Carbon, Action: Photosynthesis Suitcase

- 1) Pre-Test
- 2) Award Winning Animation Video (questions)
- 3) Leaf Cell Model
- 4) Sugar Rush! Board Game
- 5) 3 Wet-Labs a) Stomata! Stomata! b) Reactions in the Dark C) Floating Leaf Disks
- 6) Post-Test

Overview- Evolution

- 1) Pre-Test
- 2) Animation Video (questions)
- 3) Beak Niche Adaptation Game (natural selection, gene flow, and genetic drift)
- 4) Fossil Lab (phylogeny)
- 5) Post-Test