

Inquiry Instructions

Where does gas exchange take place in plants?



BLM 2: Leaf Cell Sampling Instructions

- A. Gently remove a leaf from one of the groups of tomato plants (e.g., control or test group).
- B. Gently paint a thin layer of clear nail polish over the top surface of the leaf and allow it to dry completely.
- C. Press a piece of clear tape over the dried nail polish. Carefully remove the tape. The thin layer of nail polish should stick to the tape and pull away from the surface of the leaf.
- D. Press the tape onto a microscope slide. Label the slide to indicate the type of leaf (e.g. control or test, or Type G or H, or monocot vs. dicot, etc.)
- E. Examine the slide under microscope.
- F. **Repeat Steps A to E** with a leaf from the other group of plants.

