Lesson plan: Photosynthesis (Grade 7 science, 45 minutes)

Teacher: Ms. Alvarez. The school, teacher and class are made up for a Dock example.

Learning goals

By the end of the lesson students can name the three inputs and two outputs of photosynthesis, say where in the leaf it happens, and explain why plants kept in the dark turn pale.

Plan

Time	Activity
0-5 min	Question on the board: where does a tree get its mass from? Students vote: soil, water or air.
5-20 min	Explain the equation: carbon dioxide + water + light gives glucose + oxygen. Show a leaf diagram with chloro
20-35 min	Pairs look at two plants grown for 5 days, one in a cupboard and one by the window, and list the differences.
35-45 min	Exit quiz: three questions. Homework: the home experiment on the handout.

Exit quiz

1. Name two things a plant needs for photosynthesis. 2. Which gas do leaves give off? 3. Why did the plant in the cupboard turn pale?
Answer to the opening question: most of a tree's mass comes from carbon dioxide in the air.