

Title of Lesson Plan	Taking in Water and Minerals
Prepared By	Ashley Carney
City and State	Waynesboro, MS
Grade Level(s)	3 -5
Keywords (subjects covered)	Plants
Brief Description	Students will do experiments to see the process that carries liquid into a plant.
Total Time Required	60 minutes
Setting	Classroom
Lesson Objectives/Goals	To understand the process through which liquid is carried into a plant.
Materials Needed	<ul style="list-style-type: none"> • 3 clear plastic or glass tubes of different diameters • tissue for each student • red or blue food coloring • clear container of water • string • several balloons • books • yard (meter) stick • masking tape • paper and pencils
Standards Addressed	Identify and describe structures and functions in living systems.
Procedure	<ul style="list-style-type: none"> • Inflate the balloons and use the string to hang them from the ceiling. Do not tell the students what these are used for but have them observe what happens to them over several days. • Place books on either side of the container and rest a yardstick across the top of them. Tape the tubes across the top of them. Tape the tubes to the stick without sealing their tops. The tubes should not touch the bottom of the container. • Color the water but do not pour it into the container. • Have each student make a drawing to explain how he/she thinks the air in the balloon escaped. Let students share these ideas. Give each student a tissue. Have them hold the tissues over their noses and mouths and then breathe through them. Ask students how they think the air got through the tissue. • Show the students the empty container with the tubes in it. Have all of the students observe what happens when the colored water is poured into

	<p>the container. The liquid travels up the tubes. The thinner the tube, the higher the water rises.</p> <ul style="list-style-type: none"> • Explain that green plants make their food by a process called photosynthesis. This process takes place mostly in the leaves. Chlorophyll in the leaves interacts with the water and dissolved minerals from the soil, carbon dioxide from the air, and light from the sun to produce food.
Assessment	Teacher Observation
Literature Cited/References	Super Plants
Forestry Tour Attended	South Central 2008

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