

Classroom AgVentures

HYDROPONICS ACTIVITY



Prepare a used, clean water bottle by cutting the top of the bottle off using the label as a guide. Cut just below the top of the label.



With a sharp utility knife, cut a hole in the top of the bottle cap. (This will be used to expose the roots to the growing solution.) Set bottle top aside.

(Close up view of what bottle top should look like after cutting hole.)



Wrap the bottom of the bottle with aluminum foil. This helps prevent algae from growing and replicates the dark conditions in which roots typically grow.



Gently place seedling into the inverted top of the water bottle, making sure the roots are through the hole in the bottle cap.



View of roots hanging out of bottle cap.



Gently place clean pea gravel around the seedling to provide support for the seedling.



Fill the reservoir (the bottom of the bottle) with the prepared nutrient solution. Place seedling cup on top of reservoir. Seedling roots should be touching the solution. Allow a small amount of air space between the solution and the bottle cap.



Picture of finished project.



One week after transplanting seedling.



View of roots one week after transplanting and growing hydroponically.



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William B. Richardson, LSU Vice President for Agriculture

Louisiana State University Agricultural Center, Louisiana Agricultural Experiment Station, Louisiana Cooperative Extension Service, LSU College of Agriculture

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