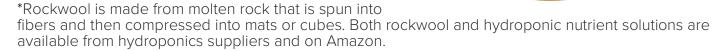
Simple Straw Aeration Hydroponic System

Overview: Kids are always amazed to see plants growing without soil. This simple kid-powered system gives them a chance to experiment and explore hydroponic basics.

Materials:

- rockwool* or cotton ball
- lettuce seeds
- plastic container with lid
- hydroponic nutrient solution*
- drinking straw



Approximate Time to Complete:

- set up 15 minutes
- grow time 3 to 4 weeks

Location: Indoor

Ages: K- 5th Grade

Season: Any season

Instructions:

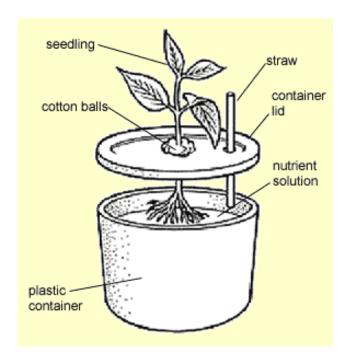
- 1. Soak small squares of rockwool or cotton balls in a dilute hydroponic nutrient solution. Plant two or three lettuce seeds in each one, and then place them on a waterproof tray or shallow container and keep moist until seeds germinate.
- 2. Find a small plastic container with a lid to repurpose, such as a margarine, cottage cheese or yogurt container.
- 3. Use a utility knife to carefully cut a 1-inch X shape in the center of the lid.
- 4. Cut a smaller X shape in the lid, about 1 inch from the edge, large enough to insert a drinking straw.
- 5. Gently insert the rockwool or cotton ball with the seedlings halfway through the large X so that it is held securely in place in the lid.
- 6. Fill the container with a dilute nutrient solution so that the very bottom of the cotton ball or rockwool square will touch the solution, then secure the lid.
- 7. Insert a drinking straw through the smaller hole into solution. Twice a day, gently aerate the solution by blowing into the straw.

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8. Change the nutrient solution every 1 to 2 weeks.



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