

Rainforest Challenge!

STEM FOCUS	<p>[S] Science [E] Engineering</p> <p>Science: Some materials are water resistant</p> <p>Engineering: Use the materials at hand to build a standing structure that can withstand water</p>	
GOAL	<p>Learners will create a standing structure (similar to a tent) providing shelter for a small toy. Instructors (parents) will pour water over the structure to test if the built structure can stand and keep the toy underneath dry. *** Note: Learners will often make several structures before reaching goal</p>	
STEPS	<p>Instructor/Parent will...</p> <ol style="list-style-type: none"> 1. Gather the materials to the left and place them in a bin 2. Play Carla & Liv KIDS Video 3. Select a place inside or outside the house that can get wet! 4. Instruct learner to select a 1 inch to 2 inch toy 5. Explain that Learners will only use the provided materials (included in the side column) to design and build a structure that can withstand “rain water” in the forest. You can show the cup of water 6. Explain the structure must be standing to shelter or house the toy and cannot allow the toy to get wet 7. Start stopwatch and encourage learners to start building! Learners will most likely build the structure a number of times. Instructors should celebrate and encourage each attempt 8. [Optional] Instructors can place paper or coffee filter under the toy to measure how much “rain” or water gets through <p>Note: Plastic and Tin Foil will work best to shelter</p>	<p>Materials</p> <p>Structure</p> <ul style="list-style-type: none"> ☉ Paper Towel or Toilet Paper Rolls ☉ Other Card Board or Recycling ☉ Zip-lock Bag ☉ Tin Foil ☉ Coffee Filters ☉ Rubber Bands ☉ Cloth/Napkins ☉ Paper ☉ String <p>Items for experiment</p> <ul style="list-style-type: none"> ☉ 1- 2 inch tall toy or paper rolled up ☉ Cup of Water ☉ Sink or surface area that can get wet
SOURCE	<p>Innovation Labs: https://innovationkidslab.com/engineering-stem-preschool-activities/</p>	