

Student Name \_\_\_\_\_ Homeroom Teacher \_\_\_\_\_

NTI Day 11

Special Area -STEM Lab 3-5

You may access this lesson electronically from the following webpages:

Special Area - <http://cgesspecialarea.weebly.com/>

STEM Lab - <http://cgesstem.weebly.com/>

NGSS: 3-5-ETS1-1	Learning Target: I am making observations of materials to see how they interact with water.
Think About:	Imagine you are in your cozy home on a dreary, rainy day. You might be watching a movie or eating a meal with your family when, all of a sudden, you hear DRIP... DRIP... DRIP... Oh no! Your roof is leaking!
Observe:	Look around your neighborhood. What shapes are the roofs on the houses and buildings? How does that shape protect the house from rain or snow? What do you notice about the materials the roof is made of? Is it one solid piece or is it smaller pieces put together in a pattern? Do the pieces overlap each other?
Test Materials:	Look around the house and yard for materials you might use for a roof - fabric scraps, plastic wrap, cereal box cardboard, foil, leaves, sticks, straws, paper towels, grass, newspaper, shells, plastic lids, etc. Choose three or four materials to test; cut each into a 4 inch by 4 inch square. Spray each material four times with water. If you don't have a spray bottle then dip your fingers in a some water and sprinkle it on the material you are testing -do this four times. Observe what happens to the water on each material. Does it: soak in? go all the way through the material? make a puddle on top of the material? run off the material?
Prepare:	Design a house that you will use in the next lesson. The house should have four walls and an opening for a door. The house should not have a roof. You will be designing the roof in the next lesson. The house may be square (4 inches by 4 inches) or rectangular (4 inches by 6 inches). You may choose to make a drawing of the house on the back of this paper <b>OR</b> make a model of the house from materials you have at home.
Reflection:	Think about the materials you tested today. What are the properties of materials that do not let water go through? Are they thick, thin, slick, rough, have holes, flexible, stretchy, etc. You may record your answer below or on the google form on the STEM Lab webpage.

---

---

---