



STEM FAMILY ACTIVITIES

for independent learning



WHERE DID THE WATER GO?



Activity:

1. Have you ever wondered where a puddle goes after it rains and the sun comes out? Which of these statements do you think is true and why?
 - a. The water disappears.
 - b. The water goes right to the clouds.
 - c. The water goes to the air around us.
2. Let's explore! You need an ice cube and a sunny sidewalk (optional: a piece of chalk and a device for timing). Place the ice cube on the sidewalk in the sun. If you have a timer, time how long it takes for the ice to melt completely. Draw a chalk line around the "puddle" created by the melted ice on the sidewalk. Continue to watch the puddle to see what happens. What do you notice? What do you wonder?

Optional Technology Connections:

Watch the read-aloud of the book "Puddles!" by Kevan Atteberry.
tinyurl.com/book-puddles



Use an electronic device to take a time lapse video of what happens to your ice cube in the sun.



3. Extension – Put an ice cube inside a small cup and cover the top of the cup with plastic wrap and secure with a rubber band. Place the cup on the sunny spot on the sidewalk and make observations.



What do you notice?
 Go back to the initial statements. Which one do you think is true and what evidence did you collect?

Go to this website and scroll down to the bottom of the page to find the link to play the "Natural Water Cycle Game"
tinyurl.com/game-watercycle



4. Engineering Challenge: Using materials around your house, create a "shelter" that will slow down the melting of your ice cube. Time how long it takes for the ice cube to melt under your shelter. Redesign and test again.

Here are 16 simple STEM projects focused on fun with water.
tinyurl.com/STEMwaterfun



Optional: Go to this link to print a "STEM journal" to record your observations and questions.
tinyurl.com/STEMjournal12



fresno county
 superintendent of schools

For more resources or support, contact
 Jon Dueck, FCSS STEM Direction – jdueck@fcoe.org
 or visit our website: stem.fcoe.org