Remote Learning: TPS Science Grade 2, May 18 - May 29

Our Planet & Its Weather: Family Resource Sheet

This week's science work is focused on weathering and erosion. Weathering and erosion work together to change the land on Earth. **Weathering** is when moving water or blowing wind breaks apart or changes big rocks and land. **Weathering breaks things up into smaller pieces. Erosion** is when strong wind and moving water carry or move small pieces of rocks and soil somewhere else. **Erosion moves the soil, sand, and tiny rocks that weathering leaves behind.** Here are some activities to help you learn about these two processes!

- ❏ Water moves from high places to lower places and takes tiny rocks and soil with it. This is an example of **erosion.** You can try this at home with a little help from an adult. This could get a little messy so make sure you are outside or that you protect your table!
  - ❏ Get two pieces of plain paper. Make a fist. Crumple it around your fist. Take the papers off and then crumple the paper a little more.
  - ❏ Now uncrumple the paper but don't flatten it. You made a mountain! Can you see it?
  - ❏ Use a marker and color in the highest folds or peaks of the mountain. Pretend the ink is rocks and soil.
  - ❏ Now for the messy part. Use a spray bottle to squirt the mountaintop with 5 sprays. This is rain! If you don't have a spray bottle, you can use your hand to flick water on top 8 or 10 times.
  - ❏ Now wait. As the water moves down the mountain, it will take ink with it. Do you see how water has moved "soil" on your mountain? Write two sentences about what happened.
- ❏ Let's try **weathering**. You will need three cookies (any kind will work-even a piece of dry toast-but a hard chocolate chip is best), a plate, a q-tip, a toothpick (or pencil), and a cup of water. Go to page **S2** or CLICK HERE to find out which weathers the cookie the best!
- ❏ Now use candy to observe the difference between weathering and erosion. All you need is a single skittle or M&M, a cup of water, and a plate.
  - ❏ Use a dropper or your finger to drip 10 drops onto your candy. Draw what happens to the candy. Repeat this 3 more times for a total of 40 drops.
  - ❏ Go to page **S3** or CLICK HERE to record what you see and answer some questions.
- ❏ Weathering and erosion work together to reshape landforms. CLICK HERE to read an article about valleys. Underline new or circle important information.
  - ❏ On a separate piece of paper answer these questions:
    1. What is a valley?
    2. How are valleys made? How long does it take?
    3. How do glaciers make valleys?
  - ❏ Tell someone how weathering and erosion work together to make valleys?
- ❏ If you can, CLICK HERE for Mystery Science or type in https://mysteryscience.com/school-closure-planning and click on "Why is the ocean salty," "Why is there sand on the beach?," or "If you floated down a river, where would you end up?" for optional videos.
- ❏ You can visit BrainPOP Jr. at https://jr.brainpop.com/ Sign up for a free account. Click on "land" to learn about slow and fast land changes.