



Water Play With Funnels and Tubes



Standards:
S.ES.PS.2

Materials:

- funnels
- clear plastic tubes of different lengths
- cups
- plastic containers
- ladles
- plastic gloves
- smocks
- bins and trays
- food coloring

Vocabulary:

- funnel
- tube: a long, hollow object
- faster: with more speed
- slower: not fast
- pour
- scoop

Preparation: Set up materials. If appropriate, make plastic gloves available, or use a smaller amount of water in a shallow tray or bin. Add food coloring to water as a visual support for tracking water movement.

Intro to Centers:

“Today in Discovery, you can experiment with moving water. You can use these **funnels** and **tubes** to move the water **faster** or **slower**.”

“First, **scoop** the water, then **pour** the water in the funnel. What do you notice?”

“What do you notice if I hold the **funnels** and **tube** in different positions?”

Show materials.

Model. Children respond.

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During Centers: Encourage children to collaborate, i.e., one child holds the funnel and tube, while another child pours the water. Encourage children to experiment with holding the funnel and tube in different positions, i.e., higher/lower. Encourage children to use different lengths/thicknesses of tubing. Encourage children to document their experiments in Writing & Drawing.

Guiding Questions during Centers:

- How can you make the water move slower or faster?
- Why is one side of the funnel large and the other small?
- How is moving water with funnels and tubes similar to or different from moving water with water wheels?
- What do you notice when you hold the funnel and/or tube higher/lower?
- What do you notice when you use different lengths/thicknesses of tubing?

Thinking & Feedback: Invite children to share their processes. Encourage children to describe the challenges they might have encountered.

Documentation: Collect samples of the children's work as well as photographs and/or video of their process; use the documentation to launch a discussion during Thinking and Feedback.

Provocation:

Invite children to use water wheels with the funnels and tubes.

Challenge children to construct a water-moving machine using funnels, tubes, and water wheels. Invite them to think of other materials they could use to move water. Research water moving machines on the internet for inspiration.