

WATER - EXPLORATION for GRADES K-2

Water Changes

OVERVIEW

Plants need water all year round, and they get that water from the ground through their roots. The whole class becomes a tree and experiences moving “water” from roots to leaves during all four seasons. As the leaves release water vapor into the air, students will see the water cycle in action. Finally, the class will experience a giant water vapor cloud that they can touch!

LOGISTICS

Program Length: 30 minutes

Audience Size: Up to 30 students

Preparation: Science Museum Instructor brings all needed equipment and materials.

This program requires at least 1 table for instruction materials, open floor space, and access to water. It is best to try to leave program in a designated space rather than moving from room to room. Some water may spill onto floors and tables.

Please allow 1 hour each for initial setup and final teardown.

Please allow for at least 10 minutes to reset between classes.

SCIENCE EXPERIENCE GOALS

- Experience how water moves through plants by modeling a tree
- Consider how a tree might prepare for different seasons
- Discover how a cloud forms and sit inside a real cloud

VOCABULARY INTRODUCED

- Roots, trunk, leaves, dormant

STANDARDS

MN Academic Standard Strand 1L.3.1.1.1 Develop a simple model based on evidence to represent how plants or animals use their external parts to help them survive, grow, and meet their needs. (P: 2, CC: 6, CI: LS1)

Next Generation Science Standards

Disciplinary Core Ideas: Weather and Climate (ESS2.D) Life Science (LS1.C; LS2.C)

Science and Engineering Practices: Engaging in Argument from Evidence (K-ESS2-2) Analyzing and Interpreting Data (K-LS1-1)

Crosscutting Concepts Patterns (K-LS1-1; K-ESS2-1; 2-LS4-1; 2-ESS2-3)

If you have further questions on bringing programming to your school, please contact our Outreach Registration Coordinator at (651) 221-4748 or schooloutreach@smm.org.