



# WAYS OF WATER

KC Water offers water quality education to students of all ages. All lessons can be modified for various grade-levels to meet science standards and are free of charge to schools, residents, and businesses in Kansas City. Schedule a lesson at [water.education@kcmo.org](mailto:water.education@kcmo.org).



**OVERVIEW:** Students will learn about water cycles, watersheds, and how water carries matter through a water system. They learn about local watersheds and how they interact with the water cycle. Finally, students will create and manipulate a watershed model and direct parts of the water cycle to learn about the journey of water. The lesson concludes with students understanding pollution runoff.

**TOTAL CLASS TIME:** Approximately 1 hour

**KEY COMPONENTS:** Introduction includes concepts and key parts of the water cycle. Main story covers the watershed and pollution runoff to waterways. Conclusion engages students in possible solutions and everyday changes they can make. In addition to NGSS/MLS, this lesson also relates to standards for Language Arts, Social Studies and Fine Arts.

**KEY VOCABULARY:** Water cycle, evaporation, condensation, precipitation, runoff, collection, watershed, gravity, pollution, pesticide, fertilizer, herbicide



Water Quality  
EDUCATION

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## NEXT GENERATION SCIENCE STANDARDS / MISSOURI LEARNING STANDARDS

<u>PHYSICAL SCIENCE</u>		Grade K	Grade 1	Grade 2
PS2-Motion & Stability: Forces & Interactions	A- Forces and Motion	K.PS2.A.1		

<u>EARTH and SPACE SCIENCE</u>		Grade K	Grade 1	Grade 2
ESS2 - Earth's Systems	A- Earth Materials and Systems			2.ESS2.A.1
	C- The Role of Water in Earth's Surface Processes			2.ESS2.C.1
	D- Weather and Climate		1.ESS2.D.1	
ESS3 - Earth and Human Activity	C- Human Impacts on Earth's Systems	K.ESS3.C.1		

<u>ENGINEERING TECHNOLOGY and the APPLICATION OF SCIENCE</u>		Grade K	Grade 1	Grade 2
ETS1 - Engineering Design	A- Defining and Delimiting Engineering Problems	K.ETS1.A.1	1.ETS1.A.1	2.ETS1.A.1
	B- Developing Possible Solutions	K.ETS1.B.1	1.ETS1.B.1	2.ETS1.B.1