Watching Our Water

Arizona Department of Education Academic Standards

The *Our Water, Our Future* program addresses the following Academic Standards.
(Complete versions of the Academic Standards are available at www.azed.gov/standards-practices/.)

SCIENCE STANDARDS	PRE-VISIT LESSON	PRESENTATION	POST-VISIT LESSON
6.L2U1.14 Construct a model that shows the cycling of matter and flow of energy in ecosystems.	✓	✓	✓
6.L2U3.11 Use evidence to construct an argument regarding the impact of human activities on the environment and how they positively and negatively affect the competition for energy and resources in ecosystems.	✓	✓	✓
7.E1U1.5 Construct a model that shows the cycling of matter and flow of energy in the atmosphere, hydrosphere, and geosphere.	✓	✓	✓
8.E1U3.7 Obtain, evaluate, and communicate information about data and historical patterns to predict natural hazards and other geological events.	✓	✓	✓
8.E1U3.8 Construct and support an argument about how human consumption of limited resources impacts the biosphere.		✓	✓
HISTORY AND SOCIAL SCIENCE STANDARDS	**PRE-VISIT LESSON**	**PRESENTATION**	**POST-VISIT LESSON**
8.SP1.3 Evaluate the significance of past events and their effect on students' lives and society.	✓	✓	✓
8.SP1.4 Use questions generated about individuals and groups to analyze why they, and the developments they shaped, are historically significant.	✓	✓	✓
8.SP4.1 Explain the multiple causes and effects of events and developments in the past.	✓	✓	✓
8.SP4.3 Organize applicable evidence into a coherent argument about the multiple causes and effects of events and issues.	✓	✓	✓
8.C1.4 Engage in projects to help or inform others such as community service and service-learning projects.			✓
8.C2.2 Explain specific roles, rights and responsibilities of people in a society.		✓	✓
8.G1.1 Use geographic tools and representations to analyze historical and modern political and economic issues and events. • Key tools and representations such as maps, globes, aerial and other photos, remotely sensed images, tables, graphs, and geospatial technology	✓	✓	✓
8.G2.1 Examine impact of and responses to environmental issues such as air, water, and land pollution, deforestation, urban sprawl, and changes to climate.	✓	✓	✓
8.G2.2 Evaluate how political, social, and economic decisions throughout time have influenced cultural and environmental characteristics of various places and regions.	✓	✓	✓
8.H2.3 Explain how geographic and environmental factors shaped communities and how competition over resources have affected government policies.	✓	✓	✓
MATHEMATICS STANDARDS	**PRE-VISIT LESSON**	**PRESENTATION**	**POST-VISIT LESSON**
6.NS.B.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.			✓
6.EE.A2 Write, read, and evaluate algebraic expressions. c. Evaluate expressions given specific values of their variables. Include expressions that arise from formulas used to solve mathematical problems and problems in real-world context…		✓	✓
6.SP.B.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.			✓
6.SP.B.5 Summarize numerical data sets in relation to their context…			✓
6.MP.4, 7.MP.4, 8.MP.4 Model with mathematics. Mathematically proficient students apply the mathematics they know to solve problems arising in everyday life, society, and the workplace…		✓	✓
7.NS.A.1 Add and subtract integers and other rational numbers … d. Apply properties of operations as strategies to add and subtract rational numbers.		✓	✓
7.NS.A.2 Multiply and divide integers and other rational numbers. c. Apply properties of operations as strategies to multiply and divide rational numbers.		✓	✓
7.EE.B.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically.		✓	✓
ENGLISH LANGUAGE ARTS STANDARDS	**PRE-VISIT LESSON**	**PRESENTATION**	**POST-VISIT LESSON**
6.RI.7 Integrate information presented in different media or formats (e.g., visually, quantitatively) as well as in words to develop a coherent understanding of a topic or issue.			✓
6.SL.1, **7.SL.1, 8.SL.1** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 6, 7, or 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.	✓	✓	✓