

5th Grade: A Drop in the Bucket

Students learn about the percentage of available fresh water on Earth and that this resource is limited and must be conserved.

Science

| Str/std/bch | Performance Standard |
|-------------|--|
| I.I.III | 5.3. Make predictions based on analyses of data, observations, and explanations. |
| II.III.II | 5.3 Know that most of Earth's surface is covered by water, that most of that water is salt water in oceans, and that fresh water is found in rivers, lakes, underground sources, and glaciers. |

Math

| Str/std/bch | Performance Standard |
|----------------|--|
| Alg.Cncpts.A.3 | 5.A.3.1 Use mathematical models to represent and explain mathematical concepts and procedures. (<i>Torn paper prediction</i>) |
| Alg.Cncpts.A.3 | 5.A.3.2 Understand and use mathematical models such as: d. graphs, tables, and charts to describe data (<i>pie chart</i>) e. diagrams or pictures to model problem situations (<i>water model</i>) |

Social Studies

| Str/std/bch | Performance Standard |
|--------------|---|
| Geog.II.II-F | 5.1 Understand how resources impact daily life. (<i>Water is a limited resource.</i>) |

5th Grade: Leak Detective

Students measure how much water can be lost in a slow and a fast leaking faucet. Using a worksheet they calculate how much water these leaks can lose in a day and a year.

Science

| Str/std/bch | Performance Standard |
|-------------|--|
| I.I.III. | 5.1. Use appropriate units to make precise and varied measurements. 5.2. Use mathematical skills to analyze data. 5.3. Make predictions based on analyses of data, observations, and explanations. |
| II.II.I. | 5.4. Describe how human activity impacts the environment. |
| III.I.I. | 5.1. Describe the contributions of science to understanding local or current issues (e.g., watershed and community decisions regarding water use). |

Social Studies

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| Geog.II.II-F. | 5.1. Understand how resources impact daily life. (<i>Water is a limited resource.</i>) |
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Math

| Str/std/bch | Performance Standard |
|-------------|--|
| 5.M.1.3. | 5.3 Solve problems involving linear measurement, weight, and capacity (e.g., measuring to the nearest sixteenth of an inch or nearest millimeter; using ounces, milliliters, or pounds and kilograms) to the appropriate degree of accuracy. |
| 5.M.1.4. | 5.4 Perform one-step conversions within a system of measurement (e.g., inches to feet, centimeters to meters). |

Extension – Develop a television commercial outlining reasons why water is a limited resource and why we should conserve. At the end of your commercial give viewers tips to conserve water. You can find conservation ideas at <http://www.projectwet.org/usa/mas/flash/wet.html>.

Language Arts

| Str/std/bch | Performance Standard |
|----------------------|--|
| Sp/Wr. Com. II-C. | 5.1. Produce a variety of written products that demonstrate competence in: <ul style="list-style-type: none">• persuasive writing (e.g., states a clear position, elaborates on the position with reasons, examples, information and other evidence) |
| Sp/Wr. Com 11-A. | 5.2. Use language to: <ul style="list-style-type: none">• present and support arguments• influence the thinking of others 5.3. Make presentations to inform or persuade, selecting vocabulary for impact. |