

Water Resources Education Program

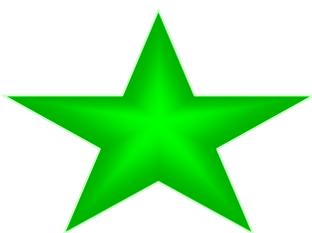
Are you looking for a fun, interactive way to teach the State Standard on Earth Sciences?

The Fresno Metropolitan Flood Control District is pleased to announce the availability of our Water Resource Education Program. The Program is structured around 5th grade Science Content Standards and the State of California's Earth Sciences curriculum and content standards, with some emphasis on Physical and Life Sciences information. The goal of the program is to educate students about:

- 💧 The importance of water
- 💧 The unique properties of water
- 💧 What makes up a watershed
- 💧 Our local water resources
 - Storm Water
 - Drinking Water
 - Waste Water
- 💧 The vital role water plays in our lives
- 💧 Things we can do to prevent pollution



Teachers of all grade levels are encouraged to make use of this fun, interactive hands-on program. This is a unique presentation developed to engage students through audience participation and the use of the watershed model. District staff will bring to your school classroom or assemblies information on the water cycle, water conservation, and how pollutants affect our environment. Staff will also review what students can do to help keep our water and environment clean, and learn about the many unique properties of water.



For more information about the program and to schedule a presentation contact Patrick Bryan at the Fresno Metropolitan Flood Control District (559) 456-3292



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State of California Earth and Environmental Science Curriculum and Content Standards

GRADE FIVE

Science Content Standards

EARTH SCIENCES

State Standard	Corresponding Program Content
3. Water on Earth moves between the oceans and land through the processes of evaporation and condensation. As a basis for understanding this concept:	The water cycle is emphasized throughout the presentation. Water conservation, pollution prevention, environmental and community stewardship are also discussed.
a. Students know most of Earth's water is present as salt water in the oceans, which cover most of Earth's surface.	Presenter will explain the distribution of water on earth: 97% salt, 2% frozen and 1% fresh and the role water plays to make our planet habitable.
b. Students know when liquid water evaporates, it turns into water vapor in the air and can reappear as a liquid when cooled or as a solid if cooled below the freezing point of water.	Students will learn about the unique physical properties of H ₂ O (solid, liquid, vapor), including cohesion and surface tension.
c. Students know water vapor in the air moves from one place to another and can form fog or clouds, which are tiny droplets of water or ice, and can fall to Earth as rain, hail, sleet, or snow.	Presenter explains that water evaporates, condenses and comes back to earth in the form of rain, snow or hail. In our community rain runs down the streets through gutters, into storm drain inlets, through underground pipes and into the ponding basins.
d. Students know that the amount of fresh water located in rivers, lakes, under-ground sources, and glaciers is limited and that recycling and decreasing the use of water can extend its availability.	Presenter explains the importance of water conservation and simple ways we all can conserve water. The water cycle is nature's way of cleaning and recycling our water, over and over again.
e. Students know the origin of the water used by their local communities.	Students will learn about their local water resources: <i>Stormwater-Waste Water –Drinking Water</i> . Students will understand where our water comes from, how water is cleaned, groundwater recharge and agricultural uses in our community.

Additionally, students will learn ways we all can reduce stormwater pollution, which can affect the quality of our groundwater – our drinking water. Students will gain a greater understanding of the impact a community or individual can have on their environment. Actions we all can take to protect and conserve our natural resources will be reinforced through out the program.

Information related to the State Standards for Physical Science 1.a, 1.b & 1.g, Life Science 2.e, 2.f & 2.g, and Earth Science 5.a & 5.b are also presented.