

August 20, 2020



Virtual School Education Program Plan

Public Outreach and Legislation Committee

Research, Planning & Preparation

- Research
 - Contacted other water agencies and local schoolteachers
- Planning: Adjust for Distance Learning
 - Online format: Google Meets and Zoom
 - Shorter lessons: 30 minutes
 - Teach a maximum of 4 classes per day
 - Coordinate with IT for necessary technical equipment
- Preparation of Elementary Curriculum
 - Develop scripts, supplemental material and props
 - Train Education Specialist team to present each grade level



Logistics

- Distance Learning Program Launch: September

EXTERNAL

- Class Sign-ups
 - Reach out to teachers via email
 - Use current online sign-up portal [yourSCVwater.com/education-registration](https://yourscvwater.com/education-registration)
- Supplies
 - Provide teachers with digital copies of handouts for their students and other materials/giveaways, as allowed

INTERNAL

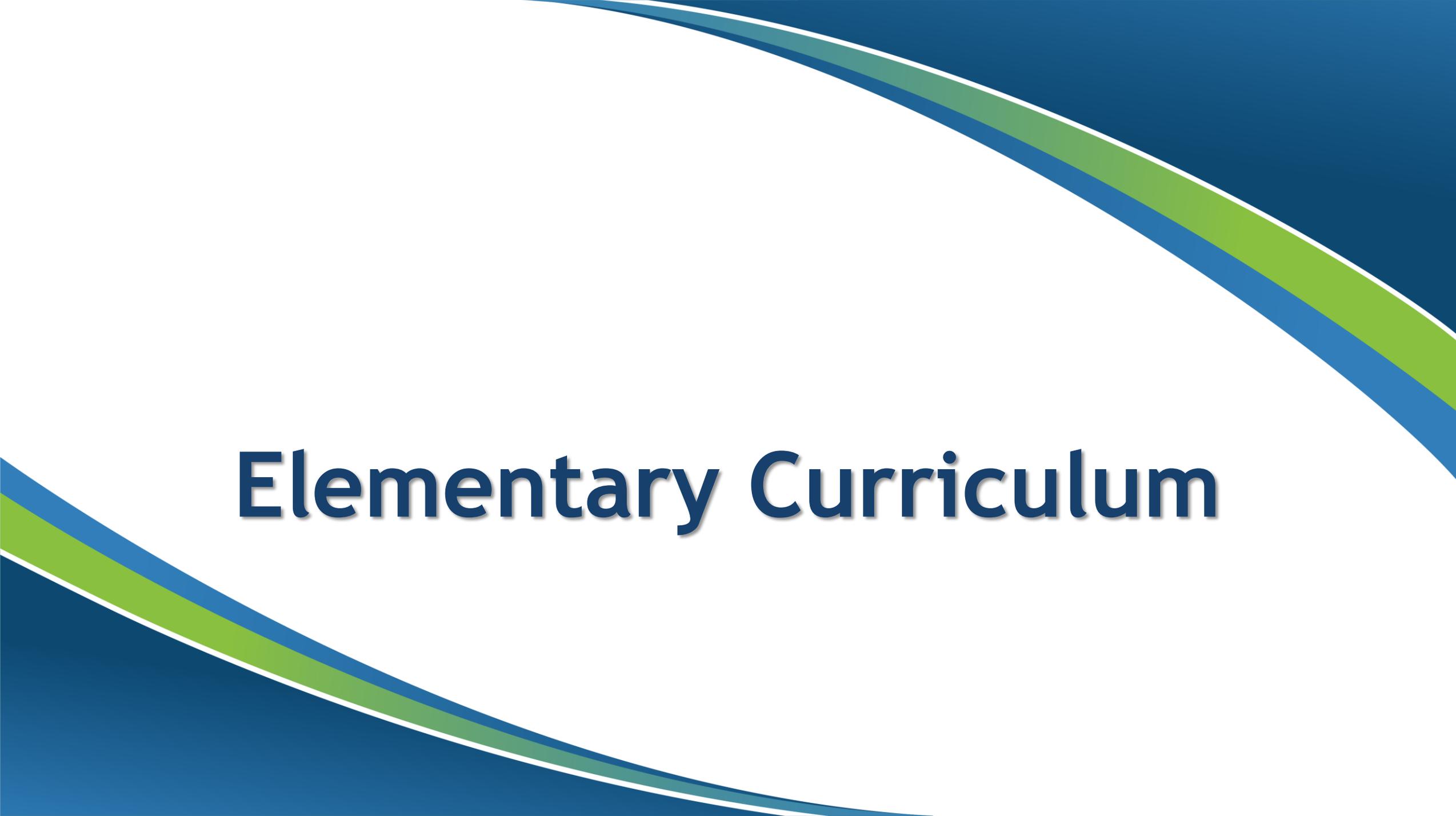
- Secure virtual learning station equipment (coordinate with IT)



Other Considerations

- High School Curriculum
 - Environmental Science teachers requested virtual classes
 - Will explore distance learning design once elementary curriculum is final
- Virtual Tours
 - Tested a tour with San Antonio Water
 - Format: combination of live instructor, PowerPoint Presentation and video clips
 - Used in 4th, 5th and 6th grade lessons
 - In process: rough draft of virtual tour



The background features a white central area framed by curved, overlapping bands of dark blue and light green. The bands curve from the top and bottom edges towards the center, creating a sense of depth and movement.

Elementary Curriculum

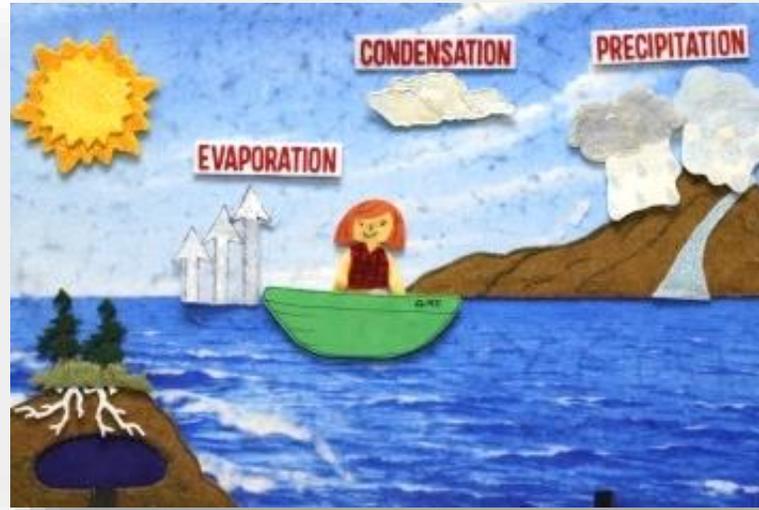
Kindergarten & First Grade Program

Topics

Water Cycle

Water Conservation

Story: Susie Saves Water



Water Cycle Musical



Water Cycle Song
Evaporation,
Condensation,
Precipitation La La La!

Water Conservation



Kindergarten & First Grade Resources

WATER CYCLE IN A BAG ACTIVITY

MATERIALS:
 Plastic zip lock bag
 Permanent marker
 Water
 Clear tape

WHAT ARE CLOUDS? WHY DOES IT RAIN? TO MAKE UNDERSTANDING THE WATER CYCLE EASIER, ALL YOU NEED IS A ZIP LOCK BAG AND A FEW SIMPLE INGREDIENTS!

STEP 1: Decorate the Bag
 Use a permanent marker to draw a sky, include clouds and the sun!

STEP 2: Add the Water
 Carefully pour the water into the bag (about 1/2 inch of water) and zip it closed tight.

STEP 3: Hang Up the Bag
 Pick a window that gets a lot of sunshine for best results. Tape tightly to the window!

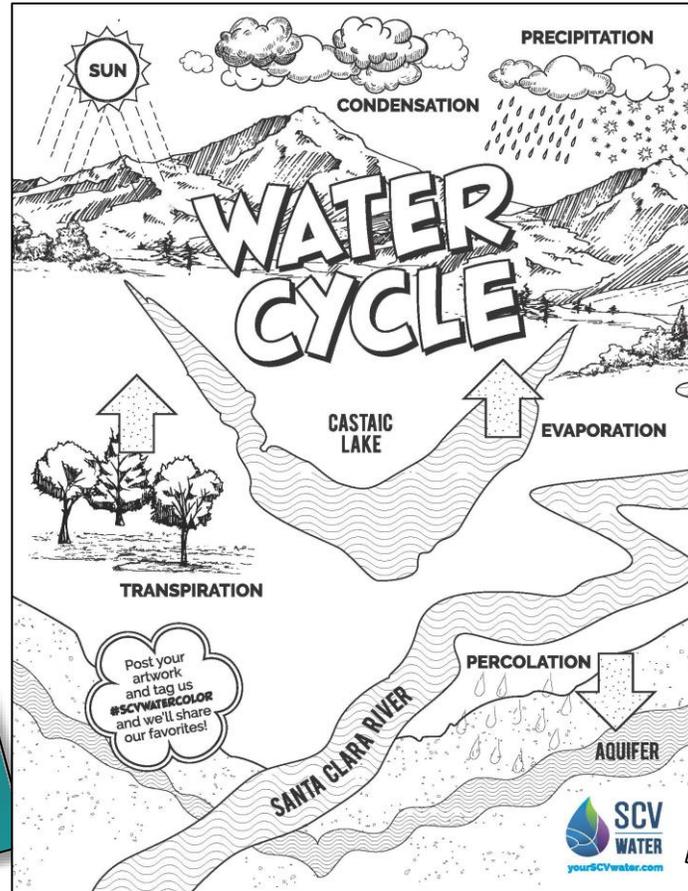
STEP 4: Wait and Observe

Eventually, you will begin to see little droplets of water forming in the bag. Some of these droplets will be up high like clouds while other droplets will drip down the edges like rain.

Why is this happening? It's because the sun is heating up the water in the bag. The water turns into a gas (water vapor) through the process called **EVAPORATION**. In nature, the water vapor rises into the atmosphere, but in our bag, it sticks to the bag. As it cools it turns back into a liquid through a process called **CONDENSATION** and rains back into the pool below. Amazingly, water repeats this cycle again and again. Water is always moving!

Keep checking on your bag to see the water cycle in progress!

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Thirstin's Wacky WATER Adventure

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Second Grade Program

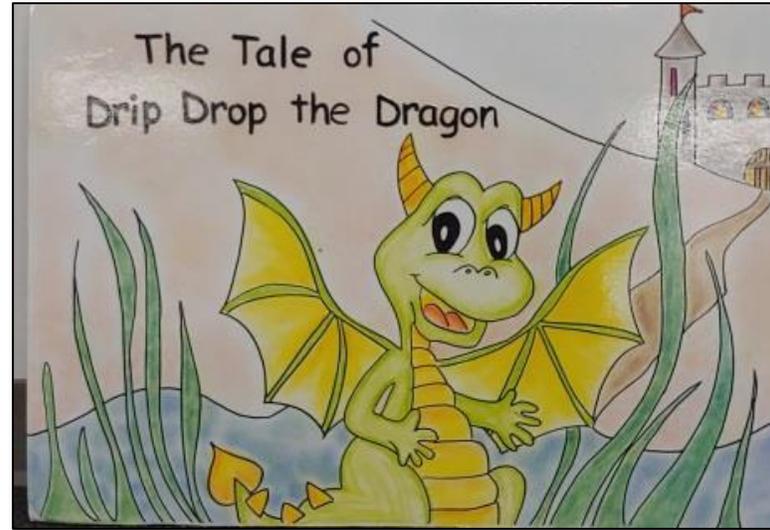
Topics

State Water Project
Water Conservation

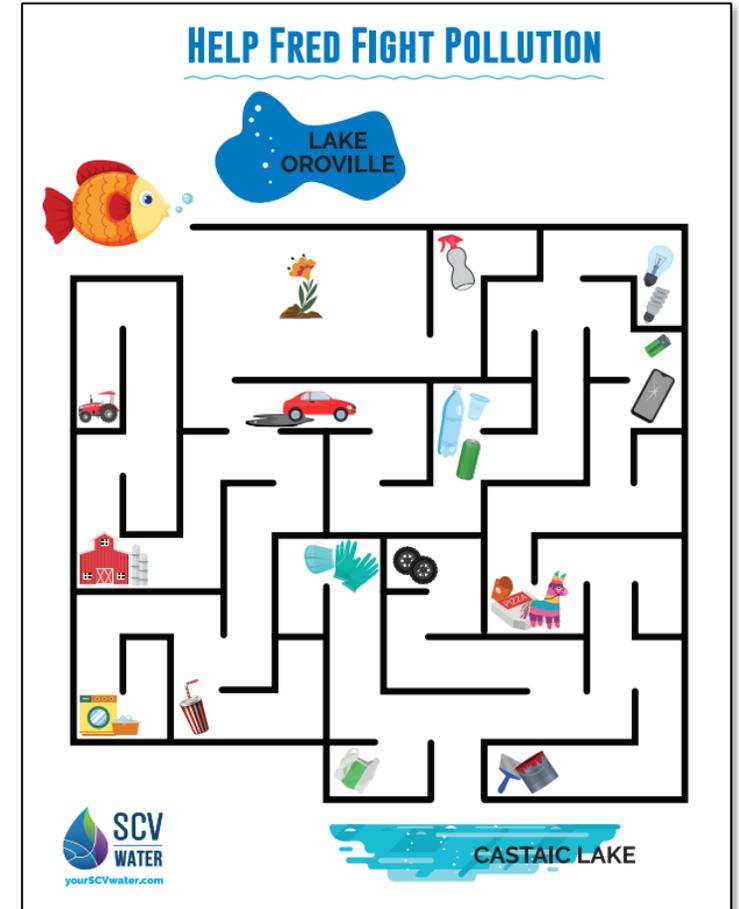


State Water Project

Fairy Tale Story



Fred's Conservation Journey



YOURSCVWATER.COM



Third Grade Program

Topics

Water Usage

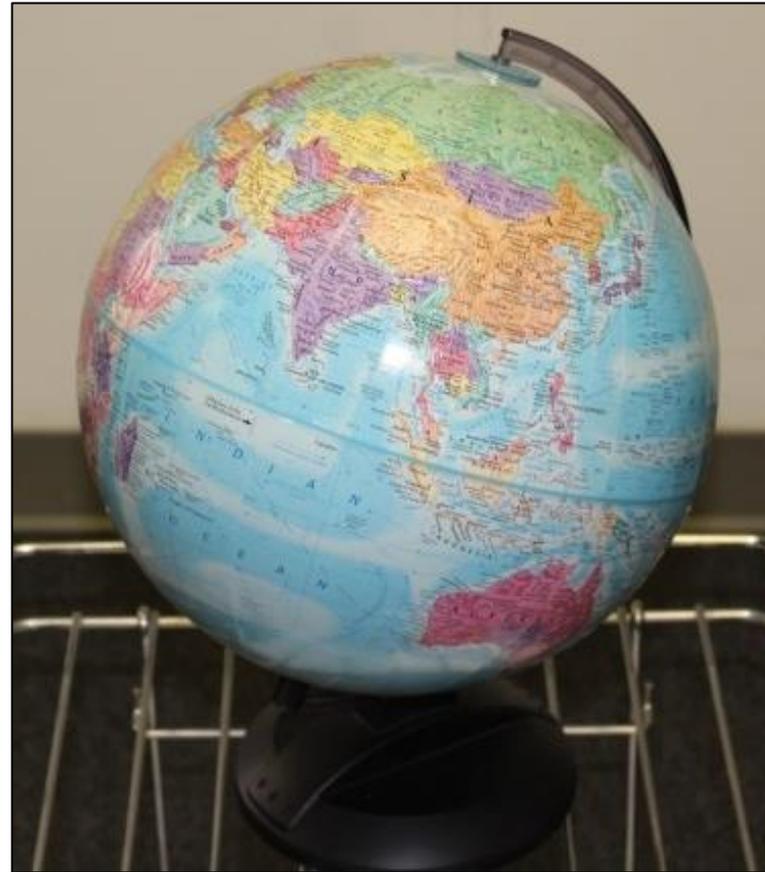
Water on Earth

Botany

Water Usage



Water On Earth



Botany

PLANT PROCESS

Directions: Match the letter with the correct part of the transpiration process.

- Transpiration
- Sun
- Evaporation
- Sugar and Carbohydrates
- H₂O Water
- O₂ Oxygen
- CO₂ Carbon Dioxide
- Roots
- Soil
- Nutrients and Water

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Fourth, Fifth and Sixth Grade Programs

Topics

Water Story (Water on Earth and State Water Project)

Virtual Water Treatment Tour

Water Bingo

Virtual Water Treatment Tour



Water Bingo

|  | | | | |
|---|-------------------|---|--------------------|---------------|
| raw water pump station | pipes | 15 million gallons | ozone | inlet tower |
| chloramines | conserve water | 450 lab tests | sludge drying beds | clarifier |
| wash water recovery basin | Castaic Lake |  | gravel | tap water |
| 66 million gallons | sand | water level control structure | filter | backwash |
| chlorine | Use water wisely! | ammonia | disinfectant | cover or tarp |



Fourth, Fifth and Sixth Grade Resources

Name: _____ Date: _____

CALIFORNIA'S WATER JOURNEY

Across

- The microscopic material that we want to get rid of in raw water (water that hasn't been cleaned yet).
- The big lake in the Santa Clarita Valley that provides our drinking water.
- SCV Water uses sand and _____ in the filtration process to clean our water.
- Our _____ is 75% water and of that water 97% is salt water.
- _____ Lake is north of Santa Clarita, and it has a nice visitor center called Vista Del Lago.
- The California _____ is a 444 mile man-made river that brings water from Northern California to Southern California.
- The first step in the water treatment process is to apply _____ gas.

Down

- Snow melts from the _____ mountains in Northern California.
- A place to store water.
- Water is sent down through the _____ (think: same name as our state capital).
- A disinfectant that we use to clean the water (think: used in swimming pools).
- This lake has the tallest dam in the United States.

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Wings Over Water
6,136 views · Feb 28, 2012

California DWR
16.5K subscribers

STATE WATER PROJECT MATCH UP

DIRECTIONS: MATCH THE DESCRIPTION WITH THE CORRECT PART OF THE STATE WATER PROJECT.

San Francisco, Pacific Ocean, San Diego, Los Angeles, Santa Clarita Valley

- The snow melts and collects in this lake with the tallest dam in the United States.
- Pumps the water from the aqueduct up 2,000 feet over the Tehachapi Mountains.
- Approximately half of the water used here is imported from the California State Water Project.
- The water is released into this river to make its way south through our state capital.
- This man-made river transports the water over 444 miles south.

Water supply begins as snow here. Our local reservoir that holds the water that has traveled over 600 miles from northern California.

This wetland estuary has very fertile farmland and some of the water flows out to the San Francisco Bay from here.

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Website: Supplementary Resources

yourSCVwater.com/school-education-program

