

Earth Science Unit Guide

Water in California

NGSS Standards:	CLASSLRs:
▲ Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity. ▲ Analyze geoscience data and the results from global climate models to make an evidence-based forecast of the current rate of global or regional climate change and associated future impacts to Earth system. ▲ Students know the importance of water to society, the origins of California's fresh water, and the relationship between supply and demand.	▲ Character by taking ownership of their learning ▲ Leadership by modeling positive behavior ▲ Attitude by displaying motivation for your learning ▲ Scholarship by using technology to enhance your learning ▲ Service by contributing to the well-being of your community

On test day you should be able to answer all of the following questions:

1. What the key reasons why societies need water, especially California?
2. Where does Northern and Southern California get its fresh water supply?
3. How does the supply of fresh water in California relate to the demand for fresh water (Where is the water and where is it needed most, think population of the state)?
4. Where do you get your water from?
5. Explain in detail how climate change is and will affect California's water supply.
6. How and why is water stored and transported in California?
7. What are the Federal, State, and Local Water Projects, what are their responsibilities to water distribution in the state, and the impact of these water projects on the environment?

California Environmental Principles and Concepts

1. The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and ecosystem services.
2. The long-term functioning and health of terrestrial, freshwater, coastal and marine ecosystems are influenced by their relationships with human societies.

Vocabulary/Concepts		
Federal/State/Local Water Projects	Delta	Sustainability
Desalination	Aqueduct	Aquifer
Ground Water	Surface Water	Hydrologic Region
Reservoir	Runoff	Infiltration
Evapotranspiration	Water Budget	Precipitation
Drought		
People		