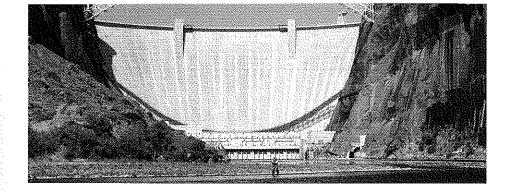
INVESTIGATION



Project

Water Diversions

PURPOSE

- Research the Internet and other sources to analyze the effects of water diversions on surrounding ecosystems and human communities
- Compare and contrast the problems and successes of various water diversions and describe possible remediations

INTRODUCTION

Humans have been diverting water for irrigation, flood control, and a constant drinking supply for thousands of years. When populations were small, the diversions were small. Over the last 150 years human populations have grown rapidly and our technical abilities have vastly improved. These two changes, worldwide, have led to many large-scale projects that have altered the environment of sizable regions. This investigation focuses on three major water diversions: the Salton Sea, Aral Sea, and the Colorado River.

Materials

- world atlas
- encyclopedia
- Internet access

PART I: The Salton Sea

	Compare the similarities and differences between the Salton Sea and Lake Chad in sub- Saharan Africa.	
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Compare the si	ituation in Mono Lake in California with that of the Aral Sea.
a. How did th	e Mono Lake problem arise?
b. Describe the	ree ways the problems of Mono Lake are similar to those of the Aral Sea.
C. Outline thre	ee ways the problems of Mono Lake differ.
i. Summanze	the proposals and actions to remediate Mono Lake.
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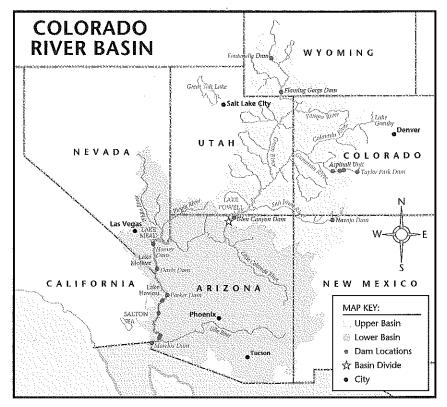


Fig. 14-1: The Colorado flows across five states and parts of Mexico.

PART III: The Colorado River

1.	Compare water diversion influences on the Colorado River with those on the Salton Sea and the Aral Sea. Describe three ways they are different.
2.	Look at Fig. 14-1 . Where is the source of the Colorado River? What are some of the main tributaries and their sources? What is the most important origin of the water in the Colorado River?

	How do the individual states use the water? Who are the top five consumers of the water?
	Describe some of the conflicts that arise over water use. How are they usually resolved?
	pescribe some of the commets that arise over water use, flow are they usually resolved?
	How are conflicts between public and private use managed?
]	Serious differences with Mexico exist concerning the amount of water the Mexicans receive from the river. Explain why this problem exists and what can be done to work out this dispute between the countries.

•	Compare the problem of water diversions on the Yangtze River in China with those of Colorado River.
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_	The Three Gorges Dam on the Yangtze River is very controversial.
	a. Why is this dam being built?
	b. Describe how this dam differs from dams on the Colorado River, such as the Colora
	Canyon Dam or Hoover Dam, with respect to:
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