Name:	Period #: Date:
Dams: Helpful or Hurtful?	
Study Guide	
What i	s the issue?
>	Dams are structures built across streams, rivers or estuaries to retain water.
Benefits of Using Dams	
>	Dams provide many benefits including:
	<ul><li>Recreation</li></ul>
	• flood control
	water supply
	hydroelectric power
	waste management
	<ul><li>river navigation</li></ul>
	wildlife habitat
Then v	what is the problem?
	Dams flood a vast area of land
	<ul> <li>Approximately 400,000 sq km worldwide have been flooded by dams</li> </ul>
	Forests are flooded and decompose
	Dams can break and cause a massive flash flood.
>	Riverbeds, banks, deltas, estuaries, and coastlines are changed
	Disrupts natural seasonal changes in the river
	<ul> <li>Ends flooding that help to clean out the silt in rivers, causing them to clog</li> </ul>

• The silt that usually flows down to the Beaches and Estuaries is blocked by the dam.

• Sediment load changes

- Sediment settles to bottom of river
- The settled sediment erodes and leaves poor habitat for fauna
- The coast beyond the mouth of the river is eroded

## Who is Causing it?

- Communities across the world use dams
- > Farmers benefit
- > Households benefit
- Big business benefits

## What is being affected?

- Plant and animal species lose habitats
- Migrations of fish are interrupted and often stopped
- Ecosystems are destroyed (dried/flooded)
- Food chains/webs are interrupted
- > Endangered species are at risk of extinction
- > Erosion alters the land

## What is being done to help?

- Suggestions for easing the effects of dam construction
  - make better use of the dams that already exist
  - try to make dams that have less environmental impact in the future
  - release more water from the reservoir that the dam created
  - inform people about what effects dams and hydroelectric power are having on the environment