

Eco=Kids Explore Water Treatment

Hosts Andrea and Michael, explain how water renews itself using the 'water cycle'. The supply, however, doesn't keep up with the demand for clean water. A short history of how water has been stored and treated is shown using historical images, photos, footage and computer generated animation. A simple experiment showing how a water treatment plant works, and then a visit to a real purification plant is highlighted. Viewers are then shown how salt water is treated in a desalination plant in Tampa, Florida. Water desalination negatives are explained, so that viewers understand the issues surrounding the use of water and who has clean water and who doesn't.

Vocabulary used in this program:

- water cycle
- run off
- aqueducts
- cisterns
- desalination
- water filtration
- water purification
- reverse osmosis
- ultraviolet light
- water treatment
- contamination
- salt water
- slurry

Questions:

1. Where does water come from?
2. Although it is renewable, why is there not enough water for everybody on Earth?
3. What is the three-step process used to purify water?
4. What is the three-step process used to pre-treat water?
5. What is the process that takes salt water and make it into drinkable water?
6. What are the disadvantages to desalination of water?

For more information to help understand water and water treatment :

U.S. Geological Survey: Water Science for Kids

<http://ga.water.usgs.gov/edu/>

The Hydrologic Cycle: An Online Meteorology Guide

[http://ww2010.atmos.uiuc.edu/\(Gh\)/guides/mtr/hyd/home.xml](http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/hyd/home.xml)

Environmental Protection Agency: Surf Your Watershed

<http://cfpub.epa.gov/surf/locate/index.cfm>