SE ASIA'S ENVIRONMENTAL ISSUES
EQ: What are the causes and effects of air pollution and water pollution in India and China and how do these issues affect people living in these countries?
I CAN...

• Examine environmental issues impacting South and East Asia by:

  • Describing the causes and effects of pollution on the Yangtze and Ganges Rivers.

  • Describing the causes and effects of air pollution and flooding in India and China.
Talking Drawings Activity

1. Turn to pg. 113 in your Interactive Notebook. Draw a line that separates your page into two parts.

2. In the top section, write the words:
   
   “Talking Drawings Part 1”

3. Draw an illustration or image that comes to your mind when you hear the concept “Environmental Issues in South and East Asia.”

4. Under your picture, write the words:
   
   When I hear the concept “Environmental Issues in South and East Asia”, I think of...

5. Complete that statement based on the picture you drew.
SE Asia’s Environmental Issues

FOLDABLE

• Create a 2-flap foldable with these labels:
  1. AIR POLLUTION
  2. WATER POLLUTION

• Inside Flap:
  1. Left Side: INDIA
  2. Right Side: CHINA

• Outside Flap: Draw a COLORFUL sketch of each environmental concern.
AIR POLLUTION IN ASIA

What do you see in this picture?
Air Pollution In India

What similarities and/or differences do you notice between the United States and India?
Air Pollution ~ INDIA

- Causes
  - Overpopulation
  - Development of Industry
  - Fuel & auto emissions
INDIA

- Overpopulation
  Expected to be 2.1 billion by 2050
  Why would this be a problem?
  - Strain on water supply
  - Pollution: Toxic waste from industries and vehicles pollute the air
  - Deforestation increases – people use trees for fuel
INDIA

- Emissions from industrial factories and automobiles pollute the air in India.
- It is difficult for the Indian government to enforce laws that would improve air quality.
- Don’t have safety standards (like we do with the EPA/EPD) - people don’t take the actions by choice.
- Around 2 million people die from respiratory problems in India each year.
Air Pollution ~ INDIA

- **Impact on People:**
  - Respiratory disease
  - Reduced rainfall & temperatures
  - “Brown Cloud”
Satellite Images of the Asian Brown Cloud
Air Pollution ~ INDIA

• **Solutions:**
  - Environmental protection laws
  - Gov’t has NOT exactly addressed this problem because there is little public interest.
Chinese Air Pollution

Compare and contrast the pictures of the cities in China and Atlanta. What do you see that is the same .... What is different in the pictures as well?
Air Pollution ~ CHINA

- **Causes:**
  - Overpopulation
  - Burning coal for growing industry
  - Auto exhaust
Overpopulation

One-child-per-family policy in 1979

*Couples that have only one child receive economic and educational benefits.

*Couples that have more than one child pay fines

*This policy has not been very successful
CHINA

- Industrial development has increased pollution and decreased natural resources.
- Food production is a huge task
  North China Plain – most fertile plains
  Flooded often, therefore destroying crops
China burns coal to produce most of its electricity. Combined with car and factory emissions, China’s coal use is causing horrible air pollution.

Seven of the world’s ten most polluted cities in the world are in China.
Air Pollution ~ CHINA

- **Impact on People:**
  - Heart & respiratory disease
  - Acid Rain
Solutions:

Govt has problems reducing pollution because they don’t want to slow down economic growth.
Environmental Concerns in China
WATER POLLUTION IN ASIA
INDIA

- Water pollution only worsens India’s water shortage problems.
- Artificial fertilizers from farming and industrial waste from factories seep into India’s rivers and pollute them.
- India’s Ganges River has been heavily polluted by industrial waste, sewage, and even human remains.

  This causes major problems because the Ganges, or Mother Ganga, is considered sacred by the Hindu population in India, who believe bathing in the river purifies people.
Pollution on the Ganges
Water Pollution ~ INDIA

Importance of Ganges River:

- Water & transportation
- Sacred to Hindus
Water Pollution ~ INDIA

Causes:

- Chemicals from farming & industry
- Human/animal waste
- Cremated bodies
Water Pollution ~ INDIA

Impact on People:
-Water borne diseases
Solutions:

- Ganges Action Plan ~ has been unsuccessful!
- Water & Sewage treatment plants.
- Electric crematoriums to reduce amount of half-burnt bodies.
Ganges River: The River Goddess
China’s rivers are heavily polluted like those in India.

The Yangtze, one of China’s most important rivers is extremely polluted.

26 billion tons of waste were dumped in the Yangtze in 2006. Yangtze fishing harvests have declined from 500,000 tons in the 1950s to only 100,000 tons in the 1990s, due largely to water pollution.
Water Pollution ~ CHINA

Importance of Yangtze River:

- Water for drinking, irrigation, & industry
Water Pollution ~ CHINA

Causes:

- Sewage
- Chemicals from farming & industry
Water Pollution ~ CHINA

Impact on People:

- Species extinction leading to food shortages
- Contaminated food & water
Water Pollution ~ CHINA

Solutions:
- Water treatment plants
- Sanitary landfills
Pollution on the Yangtze River
The Yangtze
Talking Drawings Activity

1. Turn to pg. 113 in your Interactive Notebook.

2. In the bottom section, write the words:
   “Talking Drawings Part 2”

3. Draw an illustration or image that comes to your mind when you hear the concept “The Impact of Environmental Issues on people living in South and East Asia.”

4. Under your picture, write the words:
   When I hear the concept “The Impact of Environmental Issues on people living in South and East Asia”, I know...

5. Complete that statement based on the picture you drew.