## The Task: Fluoride in Water

#### You are an employee of the Environmental Protection Agency your boss, Mr. Pure, has just asked you to prepare a PowerPoint presentation to be presented at the local school about different aspects of water pollution.

**In your PowerPoint presentation, Mr. Pure, has asked you to include the following information:**

#### What is water pollution?

#### What are some sources of fluoride pollution?

#### What are some of the health effects of fluoridated water pollution?

#### What can be done to remove the fluoride from drinking water?

#### What countries in the world currently fluoridate their water supply, which don’t?

#### Is there controversy in the U.S. over water fluoridation?

## The Process:

#### You will work together in groups of three. Each person on your team will have a specific job to perform.

#### One person is to be the *General Water Pollution Expert.*This person is to research gather general information on water quality and water pollution in its various forms.

#### The other person on the team is to be a *Water Quality & Fluoride and Public Awareness Expert.*That person is to focus on nitrates in our water supply and how to best inform the public about the threat of water pollution and poor water quality.

#### The other individual needs to be the health expert.

## The Task: Coliform Contamination

#### You are an employee of the Environmental Protection Agency your boss, Mr. Pure, has just asked you to prepare a PowerPoint presentation to be presented at the local school about different aspects of water pollution.

**In your PowerPoint presentation, Mr. Pure, has asked you to include the following information:**

#### What is coliform contamination?

#### What are some sources of fecal contamination in water?

#### What are some of the health effects of coliform contamination in water?

#### What can be done to remove the coliform contamination from drinking water?

#### What countries in the world have serious issues with fecal contamination?

#### Why is factory farming such an issue with coliform contamination?

## The Process:

#### You will work together in groups of three. Each person on your team will have a specific job to perform.

#### One person is to be the *General Water Quality & pollution Expert.*This person is to research gather general information on water quality and water pollution in its various forms.

#### Expert on coliform bacteria and their sources of contamination.

#### The other individual needs to be the health expert.

## The Task: Water Bourne Diseases

#### You are an employee of the Environmental Protection Agency your boss, Mr. Pure, has just asked you to prepare a PowerPoint presentation to be presented at the local school about different aspects of water pollution.

**In your PowerPoint presentation, Mr. Pure, has asked you to include the following information:**

#### What are some examples of enteric diseases that are water borne?

#### How many people are effected by water borne diseases?

#### What are some new technologies that might combat enteric diseases in the developing world?

#### What are the morbidity statistics world-wide for enteric diseases?

#### What countries in the world have serious issues with enteric diseases?

## The Process:

#### You will work together in groups of three. Each person on your team will have a specific job to perform.

#### One person is to be the *General Enteric Disease Expert.*This person is to research gather general information on water quality and water pollution in its various forms.

#### Expert on statistics and epidemiology

#### The other individual needs to be the health expert.

## The Task: Bacteria and Parasites of Water

#### You are an employee of the Environmental Protection Agency your boss, Mr. Pure, has just asked you to prepare a PowerPoint presentation to be presented at the local school about different aspects of water pollution.

**In your PowerPoint presentation, Mr. Pure, has asked you to include the following information:**

#### What are some organisms that cause water borne diseases?

#### What are some sources of contamination in water?

#### What are some of the health effects of zoonotic contamination in water?

#### What can be done to remove these organisms from drinking water?

#### What countries in the world have serious issues with zoonotic contamination?

#### How is it currently being addressed in these countries?

## The Process:

#### You will work together in groups of three. Each person on your team will have a specific job to perform.

#### One person is to be the *General Water Quality Expert.*This person is to research gather general information on water quality and water pollution in its various forms.

#### Expert on zoonotic organisms and their sources of contamination.

#### The other individual needs to be the health expert.

## The Task: Lead in Water

#### You are an employee of the Environmental Protection Agency your boss, Mr. Pure, has just asked you to prepare a PowerPoint presentation to be presented at the local school about different aspects of water pollution.

**In your PowerPoint presentation, Mr. Pure, has asked you to include the following information:**

#### What is a major cause of lead contamination?

#### What are some sources of lead contamination in water?

#### What are some of the health effects of lead contamination in water?

#### What can be done to remove the lead contamination from drinking water?

#### What countries in the world have serious issues with fecal contamination??

## The Process:

#### You will work together in groups of three. Each person on your team will have a specific job to perform.

#### One person is to be the *General Water Quality Expert.*This person is to research gather general information on water quality and water pollution in its various forms.

#### Expert on lead and their sources of contamination.

#### The other individual needs to be the health expert.

## The Task: Factory Farming and Water

#### You are an employee of the Environmental Protection Agency your boss, Mr. Pure, has just asked you to prepare a PowerPoint presentation to be presented at the local school about different aspects of water pollution.

**In your PowerPoint presentation, Mr. Pure, has asked you to include the following information:**

#### What is factory farming?

#### Why is factory farming a major cause of water pollution?

#### What are some of the pollutants that enter into the water system as a result of factory farming?

#### What are some of the health effects that can arise?

#### What is the U.S. currently doing if anything to mitigate this issue?

#### What are some major factory farms in Georgia?

## The Process:

#### You will work together in groups of three. Each person on your team will have a specific job to perform.

#### One person is to be the *General Water Quality Expert.*This person is to research gather general information on water quality and water pollution in its various forms.

#### Expert factory farming (livestock and crops)

#### The other individual needs to be the health expert.

## The Task: City Water

#### You are an employee of the Environmental Protection Agency your boss, Mr. Pure, has just asked you to prepare a PowerPoint presentation to be presented at the local school about different aspects of water pollution.

**In your PowerPoint presentation, Mr. Pure, has asked you to include the following information:**

#### How do municipal water districts purify water?

#### What are some of the chemicals employed to clean water?

#### What are thought to be some of the health effects of these chemicals?

#### What is the Clean Water Act?

#### Where does the Cobb County water company procure its water?

#### Why are major sources of contamination in the Cobb Area?

## The Process:

#### You will work together in groups of three. Each person on your team will have a specific job to perform.

#### One person is to be the *General Water Quality Expert.*This person is to research gather general information on water quality and water pollution in its various forms.

#### Expert on water purification methods?

#### The other individual needs to be the regional health expert?

## The Task: Bottled Water Vs. Tap Water

#### You are an employee of the Environmental Protection Agency your boss, Mr. Pure, has just asked you to prepare a PowerPoint presentation to be presented at the local school about different aspects of water pollution.

**In your PowerPoint presentation, Mr. Pure, has asked you to include the following information:**

#### Compare and contrast water quality of bottle water and tap water?

#### What are some of the major companies that sell bottled water?

#### What are some methods of bottled water purification?

#### What method is best?

#### What are some of the standards in place to evaluate bottled water effectiveness?

#### Is bottle water better than tap?

## The Process:

#### You will work together in groups of three. Each person on your team will have a specific job to perform.

#### One person is to be the *General Water Quality Expert.*This person is to research gather general information on water quality and water pollution in its various forms.

#### Expert on bottled water purification methods..

#### The other individual needs to be the health expert.