Location Instruction Sheet

Wastewater Treatment Facility

1. Pour your water through the strainer into the empty measuring cup.
2. Place any beads the strainer catches in the large bowl. Pour the water in the measuring cup back into your jar.
3. Fill out one row of your Worksheet for this location. You can leave the Question and Answer sections blank.
4. Draw a card to determine which location you will go to next.
5. Place the card face down at the bottom of the deck.
6. Go to your next location.

Did you know?

Wastewater Treatment Facilities remove a number of contaminants including trash, leaves, grease, organic material, phosphorus, and nitrogen. However they do not remove many contaminants of emerging concern (CECs).

Fort Logan Northgate is located in Sheridan Sanitation District NO. 2? This district serves the western and northern areas of Sheridan.

Institute for Environmental Solutions

Location Instruction Sheet

Source Water (Lakes, Rivers, Ground Water)

1. Fill out one row of your Worksheet for this location. Choose one question below that you have not answered before and write the letter in the Question section and the answer in the Answer section of your Worksheet.

   A. List one example of a water source. Where do homes or cities get their water?

   B. Where does Sheridan get its water?

   C. Where does water in rivers come from?

   D. Where does water in wells or aquifers come from?

   E. How do rivers impact the surrounding environment?

   F. What happens if our source water is polluted with CECs?

2. Draw a card to determine which location you will go to next.
3. Place the card face down at the bottom of the deck.
4. Go to your next location.

Institute for Environmental Solutions

Location Instruction Sheet

House

1. Put one pump of tea in your jar of water.
2. Put one spoonful of beads in your jar of water.
3. Fill out one row of your Worksheet for this location. You can leave the Question and Answer sections blank.
4. Draw a card to determine which location you will go to next.
5. Place the card face down at the bottom of the deck.
6. Go to your next location.

Did you know?

There is an estimated 2,487 occupied housing units in Sheridan. A lot of pollution can come from homes. Household pollutants can exist in soap, lotion, laundry detergent, makeup, medicine, paint, dirt, fertilizer, and food scraps. Some of these pollutants are treated for at Wastewater Treatment Facilities. These pollutants are represented by the beads. Other pollutants are not yet treated for. They are represented by the tea.

Institute for Environmental Solutions

Location Instruction Sheet

Human

1. Put one pump of tea in your jar of water.
2. Put one spoonful of beads in your jar of water.
3. Fill out one row of your Worksheet for this location. You can leave the Question and Answer sections blank.
4. Draw a card to determine which location you will go to next.
5. Place the card face down at the bottom of the deck.
6. Go to your next location.

Did you know?

There is an estimated 6,018 people live in Sheridan. A lot of pollution can come from people. These pollutants can exist in soap, shampoo, lotion, sunscreen, makeup, deodorant, perfume, medicine, and food. Some pollutants are treated for at Wastewater Treatment Facilities. These pollutants are represented by the beads. Other pollutants are not yet treated for. They are represented by the tea.

Institute for Environmental Solutions

Location Instruction Sheet

Soil

1. Fill out one row of your Worksheet for this location. Choose one question below that you have not answered before and write the letter in the Question section and the answer in the Answer section of your Worksheet.

   A. What happens when precipitation lands on concrete, like streets or parking lots, instead of soil or lawns?

   B. Where does the water in soil come from?

   C. What happens if water in the soil is polluted with CECs?

   D. Do different types of soils, such as sandy soils or soils rich in clay, absorb water differently?

2. Draw a card to determine which location you will go to next.
3. Place the card face down at the bottom of the deck.
4. Go to your next location.

Institute for Environmental Solutions

Location Instruction Sheet

Plant

1. Fill out one row of your Worksheet for this location. Choose one question below that you have not answered before and write the letter in the Question section and the answer in the Answer section of your Worksheet.

   A. List two plants that you see growing around Sheridan. How might they be affected by pollution?

   B. Where do plants get their water?

   C. How does water move from plants to clouds?

2. Draw a card to determine which location you will go to next.
3. Place the card face down at the bottom of the deck.
4. Go to your next location.

Institute for Environmental Solutions

Location Instruction Sheet

Clouds

1. If your jar is empty, pour some clean water into it.
2. Fill out one row of your Worksheet for this location. Choose one question below that you have not answered before and write the letter in the Question section and the answer in the Answer section of your Worksheet.

   A. List one role clouds play in the environment.

   B. Where does the water in clouds come from?

   C. Why does water pollution not impact clouds? If clouds are polluted, where did the pollution come from?

   D. How do you think clouds are impacted by climate?
3. Draw a card to determine which location you will go to next.
4. Place the card face down at the bottom of the deck.
5. Go to your next location.

Did you know?

When water evaporates into water vapor, only the H2O evaporates, nothing else. Any dirt, salt, pollution, or other substances remain in the liquid body of water. If water vapor, clouds, or precipitation is polluted, it is due to air pollution, not water pollution.

Institute for Environmental Solutions

Location Instruction Sheet

Ocean

1. Fill out one row of your Worksheet for this location. Choose one question below that you have not answered before and write the letter in the Question section and the answer in the Answer section of your Worksheet.

   A. The many rivers and creeks in the Denver Metro area flow to the Gulf of Mexico in the Atlantic Ocean. List one type of ecosystem that exists in or around oceans.

   B. What are two types of sea life that can be impacted by pollution that comes from rivers?

   C. Where does water from the ocean often go?

   D. Do you think pollution in oceans can impact tourism?

2. Draw a card to determine which location you will go to next.
3. Place the card face down at the bottom of the deck.
4. Go to your next location.

Institute for Environmental Solutions

Location Instruction Sheet

Animal

1. Fill out one row of your Worksheet for this location. Choose one question below that you have not answered before and write the letter in the Question section and the answer in the Answer section of your Worksheet.

   A. List two animals that you see living around Sheridan. How might they be affected by pollution?

   B. Where do animals get their water from?

   C. How does water move from animals to clouds?

2. Draw a card to determine which location you will go to next.
3. Place the card face down at the bottom of the deck.
4. Go to your next location.

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