

STUDY NOTES: SUSTAINABILITY & STEWARDSHIP

Water Principles

- Individuals, communities, and industries have unique water footprints that impact water resources.
- Communities do not have equal access to water quantity (amount) or quality (drinkable).
- People's values, attitudes, and beliefs about water are shaped by their experiences.
- Individual and community water conservation efforts impact water availability on a local level.

Lesson 6.1 A Drop in the Bucket

- Potable water is freshwater that is safe to drink, which not all communities have equal access to.
- 97% of water on Earth is in the Ocean, with only 3% being freshwater.
 - 80% of freshwater is frozen in polar ice caps
 - 25% of unfrozen freshwater is found on the land's surface.
 - 75% of unfrozen freshwater is found underground.

Lesson 6.2 Water Web

- Direct Water Use is water you use directly to do something immediately.
 - Water that is seen, felt and used at that given time.
 - For example, when you turn on your faucet or hose for water.
- Indirect Water Use is water used to produce the goods and services we all enjoy.
 - The water is hidden or not seen by the end-user during the process or manufacturing of a good or service.
 - For example, vegetables, meat, clothing, cars, and cell phones all require water to be made, even though we do not see the water that was used when interacting with these products.

Lesson 6.3 My Water Footprint

- A water footprint reveals water use patterns, from the individual level all the way to the national level.
 - This includes the water used in all the processes involved in manufacturing and producing our goods.
 - It also accounts for water contaminated during manufacturing and production.
 - A water footprint is measured in terms of the volume of water consumed, evaporated and polluted.

Name: _____

FILL-IN-THE-BLANKS NOTES

1. _____ is freshwater that is safe to drink.
2. Communities do not have equal access to water _____ or quality.
3. _____ Water Use is water you use directly to do something immediately.
4. _____ Water Use is water used to produce the goods and services we all enjoy.
5. A water _____ reveals water use patterns, from the individual level all the way to the national level.
6. Individual and community water _____ efforts impact water availability on a local level.

Name:_____

QUIZ

Question 1: Do communities have equal access to quantity or quality water?

Question 2: What is an example of Direct Water Use?

Question 3: What is an example of Indirect Water Use?

Question 4: What does a Water Footprint tell us about ourselves?

BONUS: Draw your Water Footprint below, with examples of Direct Water Use included in the left footprint, and examples of Indirect Water Use included in the right footprint.

Quiz Answer Key:

1. No, different communities have different levels of access to drinkable/usable water.
2. Turning on the faucet to brush your teeth, taking a shower, water garden, etc.
3. Water used to produce vegetables, meat, clothing, cars, cellphones, etc.
4. A water footprint reveals water use patterns, from the individual level all the way to the national level.

Answer Key for Fill-in-the-Blanks:

1. Potable
2. Quantity (amount)
3. Direct
4. Indirect
5. Footprint
6. Conservation (saving)