



The AVA Project

Natasha N. Dungor



The Importance of Water in Our World



Different Types of Water



Image Source:

<https://pixabay.com/vectors/search/water%20droplet/>

<https://pixabay.com/vectors/search/faucet/>

TYPES OF WATER



- CLEAN WATER - drinking water or potable water is known as clean water
- GREY WATER - all the wastewater formed in households or office buildings from streams without fecal contamination or kitchen water.
- BLACK WATER - is the wastewater from bathrooms and toilets that contains fecal matter and urine.

Know your Water



CLEAN WATER

→ Water used for drinking and cooking

GRAY WATER

→ Used water without toxic chemicals and excrement

BLACK WATER

→ Contaminated water with toxic chemicals and excrement

CLEAN WATER

- ★ Ground Sources
- ★ Surface Water
- ★ Precipitation



GRAY WATER

- ★ Faucets/Taps
- ★ Baths
- ★ Bathroom Sinks
- ★ Washing Machines

BLACK WATER

- ★ Toilets
- ★ Dishwashers
- ★ Kitchen Drains



Image Source:

<https://www.heparks.org/programs-sports/health-fitness/fitness-centers/kissclipart-rain-cloud-transparent-background-clipart-rain-clo-2fd3bc38b7d12aae/>

Uses of Water

Uses of Water



Water plays an important role in the life cycle of plants, animals, and humans.

- Drinking
- Cleaning
- Cooking
- Having a Bath
- Watering Plants



Image Source:

<https://pixabay.com/illustrations/woman-gardening-tomatoes-5815895/>

https://www.wannapik.com/vectors/8336?search%5Bcategory_id%5D=1933&search%5Blicense_id%5D=2&search%5Btype%5D=Illustration

<https://www.wannapik.com/vectors/21705>

The Water Cycle



- Water evaporates from water bodies and forms clouds in the sky
- When clouds become heavy, we get rain
- Rain again evaporates and forms clouds and the cycle continues

The Water Cycle

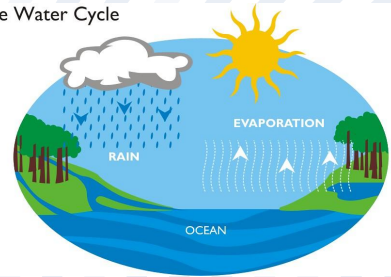


Image Source:

<https://www.flickr.com/photos/globalwaterpartnership/5663389997>

Rainfall

- Rainwater is fresh water
- Rainwater can be stored and used in everyday activities
- Rainwater can be measured by tools like a rainwater measurer



Image Source:

<https://pixabay.com/illustrations/water-meter-rainfall-equipment-927515/>

<https://www.heparks.org/programs-sports/health-fitness/fitness-centers/kissclipart-rain-cloud-transparent-background-clipart-rain-clo-2fd3bc38b7d12aae/>

Plant Life

- Plants need water to live and water plays an important role in the wellbeing of plants
- Plants use sunshine, water and soil to grow
- Without water, plants can not survive
- Plants convert carbon dioxide (CO_2) to oxygen (O_2) which humans need to survive and thrive

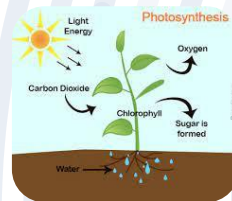


Image Source:

<https://openclipart.org/detail/300723/potted-plant-11>

https://commons.wikimedia.org/wiki/File:Photosynthesis_Images.jpg

Water Bodies

- Sea and ocean water is salty
- The water has too much salt for humans to have and that's why we can't drink water from the ocean
- This water can be distilled and then it will be ready to drink
- Water from lakes are clean water and can be consumed
- Other water bodies are rivers and ponds
- All water bodies have some water animals living in them like fishes and whales



Image Source:

<https://pixabay.com/vectors/mountain-lake-trees-fiddlers-green-310155/>

<https://pixabay.com/vectors/beach-tropical-landscape-blue-42375/>



Water Vapor in the Air

- Water vapor is needed in the atmosphere to maintain a state of humidity
- These conditions make sure that skin remains hydrated, eyes are healthy, and hair remains well
- It ensures that the atmosphere is moist and people feel fit and healthy
- When water vapor condenses, we get rain



Where do you see water?



Image Source:

<https://www.cleanpng.com/png-earth-world-water-day-water-conservation-water-eff-251329/>

Mindfulness in Nature:

Spend the next 10 minutes outside!
Find a quiet place to sit, or take a short walk. What forms of water do you observe?

- draw pictures
- record words

Be ready to share!



Teacher Notes:

- go over safety expectations with students including boundaries
- if possible, provide students with a clipboard, paper and pencil and have them walk in a designated space (ensure it is a safe space and that all students can be seen/supervised)
- spend the next 10 minutes taking a short walk, or finding a quiet spot to sit and observe
- optional - mindful breathing; close your eyes - how many different sounds can you hear? etc...
- spend time looking for different forms of water around you (i.e., wet grass, clouds, etc ...) sketch or record your observations onto paper
- be ready to share your ideas when students return to the online or in-person classroom

Image Source:

<https://pixabay.com/vectors/drop-face-liquid-rain-raindrop-148199/>



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Natasha is a 9th grader in Houston, TX. She has been an active participant in the Houston Zarathushti community since childhood and is currently the President of its Middle Group. She is very passionate about science and nature and is interested in medicine as a future career.

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