## **EDUCATIONAL RESOURCES ON WATER TREATMENT**

(1) CDC Article On Water Treatment Coagulation - Flocculation - Sedimentation - Filtration - Disinfection https://www.cdc.gov/healthywater/drinking/public/water\_treatment.html

(2) Encyclopedia Britannica Explanation of water treatment cycle <u>https://www.britannica.com/technology/water-supply-system/Coagulation-and-flocculation#ref1084799</u>

(3) Teach Engineering - Stem curriculum for K-12 Countless activities and lessons for teachers on the subject of engineering https://www.teachengineering.org/

(4) Wastewater Education, K-12 Resources for Teachers https://wastewatereducation.org/teacher\_resources.html

(5) The Water Project Water Crisis Lesson Plans for grades K-12 https://thewaterproject.org/resources/

(6) United States Environmental Protection Agency - Lesson Plans, Teacher Guides and Online Environmental Resources for Educators Topics include air, climate change, ecosystems, energy, health, waste and water. <u>https://www.epa.gov/students/lesson-plans-teacher-guides-and-online-environmental-resources-</u> educators

(7) Water Resources for Educators
Multiple links to free online water education resources.
<a href="https://www.watercalculator.org/education/water-resources-for-educators/">https://www.watercalculator.org/education/water-resources-for-educators/</a>

(8) Water Education Resource Library by APEC Water https://www.freedrinkingwater.com/resource-water-education-library.htm

(9) U.S. Geological Survey - Education Resources on Water https://education.usgs.gov/primary.html#water

(10) Nasa Cleaning Water Activity for Grades 3-5 <u>https://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Cleaning\_Water\_Activity.ht</u> <u>ml</u> (11) Water System

Including the process of aeration, coagulation, sedimentation, filtration, disinfection. For grades 4-8

https://www3.epa.gov/safewater/kids/pdfs/activity\_grades\_4-8\_waterfiltration.pdf

## VIDEOS

(1) Water and You: The Water Treatment Process [Youtube Video] Topics Covered:

- o How does drinking water get to your home?
- o How the water travels through treatment facilities
- o "Coagulation" and "Flocculation" and how these are removed.
- o Disinfection of Water
- o Ozone
- o Testing of water.

https://www.youtube.com/watch?v=tuYB8nMFxQA

(2) Advanced Stormwater Treatment using CESF Starring Bill Nye https://www.youtube.com/watch?v=gT3V9OeXOI8

(3) Sewage treatment cycle for grades 4-6 https://www.youtube.com/watch?v=8isr9nSDCK4

(4) Water Treatment cycle for grades 7+ https://www.youtube.com/watch?v=9z14l51lSwg

(5) Waste water treatment for grades 7+ https://www.youtube.com/watch?v=FvPakzqM3h8

(6) Water treatment project (News channel) https://www.youtube.com/watch?v=tPP\_Yn2w2Sk

(7) Hard and soft water | Chemistry for All | The Fuse School https://www.youtube.com/watch?v=ebygQes5Wig