



## THE CHALLENGE:



“Water, water everywhere, but not a drop to drink!” Humans need clean drinking water to survive. The water from our rivers, lakes, streams, and ocean is all around us but it might have a few undesirable items floating in it. Everyone has a right to clean drinking water.

Venture out in nature to collect some water from a local, natural water source. Take note of what your water looks like.

Your challenge is to build a water filtration system to turn dirty or salty water into clean water! Tips can be found [here](#) or [here](#). Be safe and don't taste your water. Make visual observations and compare!

~ STEAM TEAM ~  
~Create, Test, Improve ~

## Learning Activities

### Language Arts:




Can you build a word family out of sticks and rocks you find on the beach or around your house? A word family is a group of words that share a common ending. The “at” word family would have words such as: cat, bat, sat. When you build your word family, share it on our STEAM North page for us to see! You can find some fun videos on YouTube when you search Word families by [Jack Hartmann](#).

### Numeracy:

What do trees, dogs and humans all have in common? They all need water! Our bodies have many important jobs to do and without water our bodies would not be able to work properly.



For one week, keep track of how many glasses of water you drink each day by using a pictograph. When you complete a glass of water, draw a glass beside the day of week. What day did you drink the most glasses of water?

Glasses of Water per Day	
Sunday	
Monday	
Tuesday	
Wednesday	

### You and Your World:

Have you ever heard the saying: “Oil and water do not mix!”?



Check out [this video](#) from Steve Spangler and try it on your own!

Accidentally releasing things like oil into our environment can have very bad consequences. Watch [this video](#) to learn ways to take care of our environment.

### Art:

While you are at a water source, collect some interesting looking pebbles or sea glass to bring home with you. Glue them onto some cardboard to create images. Try making your family or some of your favorite animals. Looking for inspiration? Check out “Stepping Stones – A Refugee Family’s Journey” [here](#).



## Musical Moments



There is always a story behind the lyrics of a song. Have your parents help you make a 5-song playlist of songs that have the word “water” in the lyrics. Check out our social media page for a performance of our water song playlist.

## Learning Activities

### *Language Arts/ Social Studies:*

Wouldn't it be cool if you were walking along the beach and you came across a question someone left for you?

This week let's leave a message in the form of a question for someone to come across. Build your message out of sticks and rocks. What is something you are wondering? Instead, you could also build your question outside at your house and take a picture to send to a friend. We would love to see your question as well. Share your picture by tagging us on Facebook or Twitter!

### *Numeracy:*

Did you know 97.5% of the world's water is made up of saltwater and only 2.5% is fresh water? We are lucky to live in a country where we turn a tap and clean water flows into our sinks, toilets, and tubs.



Measure the amount of water you use while brushing your teeth if you leave the water running.

THEN.....

Measure the amount of water you use when you shut the water off while brushing your teeth.

How can you find the difference in milliliters when you don't shut the water off versus when you do?



### *Science:*

*Oil and water do not mix!* Oil spills in our oceans can have a devastating effect on our wildlife. Try this [oil spill containment challenge](#) from our friends at Brilliant Labs!

Scientists and engineers are still working on the answer to this question themselves, so no idea is too big or too small!



### *The Arts:*

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### Language Arts/Social Studies:

Do you ever get a feeling when you are near water? Write a Haiku Poem about water. What is a Haiku Poem? It is a traditional form of Japanese poetry consisting of 3 lines. The first and last lines of a Haiku have 5 syllables and the middle line has 7 syllables. Click [here](#) for examples.

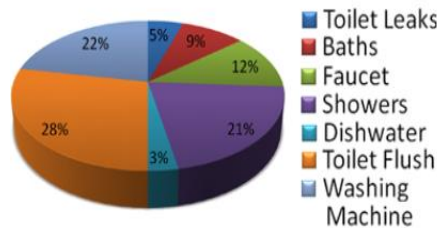
Spring  
Rain, tree buds, tulips.  
All signs of when Spring has sprung.  
Hello sun, bye snow!

### Numeracy:

A family of four, who uses about 150 gallons of water each, for a period of one month, pays \$114.00 per month for their water bill.

How much are they getting charged per gallon?

Look at the pie chart below:

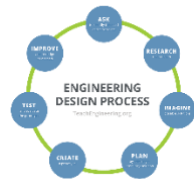


Determine how much they pay for each different type of usage.

### Science:

Boyan Slat began his ocean clean-up dream at the age of 16. By the age of 18 he founded [The Ocean Cleanup](#) and had devised a concept to use the ocean's natural forces to catch ocean plastics. His team is currently working to remove plastic from the Great Pacific Garbage Patch. (Learn more [here](#))

As this plastic is collected, where does it go? What could it be made into? Use the [Design Process](#) to design a product that could have a positive impact on our environment or society.



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