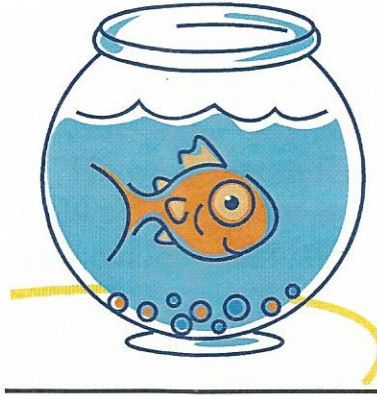


FRED THE FISH



Objectives

To learn in a hands on, fun way about real life water pollution and it's effects on the environment and ecosystems.

Materials

1. large clear jar or fishbowl
2. plastic fish or cut a fish shape from a sponge suspended from pencil with fishing line
3. water

(Bathroom Cups $\frac{1}{4}$ full of the following)

4. Dirt = Erosion
5. Brown Sugar = Fertilizer (lawns)
6. Syrup = Oil (car oil change no recycling)
7. Shredded Paper or hole punches = Litter
8. Soap = Campers Washing (burping bubbles)
9. Pudding = Untreated Sewage (city not doing its job)
10. Green Food Coloring =Leaking toxic waste (rusting barrels)
11. Strainer for dumping your "polluted water"

THE STORY OF FRED THE FISH

Once upon a time, there was a fish. <PULL OUT FRED THE FISH> A fish named Fred. Fred lived in a natural wildlife preserve near the small town of (town). Fred had a problem. Fred was bored. He would swim through the nice, clear water of the preserve day by day, but he always wanted to know what was outside of the preserve. He never quite had the courage to find out, until one day...

One day Fred swims around the preserve, daydreaming and not really paying attention to where he's going. He suddenly realizes he has followed the stream outside of the preserve area. Afraid, he turns around and starts to head back, but then he stops. He turns back around and looks downstream. Curiosity overwhelms Fred. He's never been outside of the preserve before. "Today," Fred decides, "would be a great day to have an adventure." He gathers up some courage, and sets off down the stream! <DROP FRED IN THE JAR>

As Fred travels down the stream, he finds himself in a dark cloud. Soil washed in during a recent rain. <DROP ONE SPOON OF HEAVY DIRT IN WATER> He can't see where he is going. But is this going to stop Fred? The cloud begins to clear and Fred continues on.

Fred passes a storm drain. The water here smells and tastes different. Fertilizer has been washed from the neighboring lawns and has traveled down the storm drains! <DROP IN PELLETS OF BROWN SUGAR> This makes Fred feel a little sick, but is this going to stop Fred? He moves on through the goop and continues down the stream.

Fred once again finds himself in a dark cloud, but this one is slippery and sticky! <DROP IN ONE SPOONFUL OF SYRUP> Someone threw the used oil from their car onto the stream bank instead of recycling it! Is this going to stop Fred? He struggles to escape and slowly continues on.

Suddenly, Fred's bumping into tires, cups, and tin cans! <DROP IN SHREDDED PAPER> He gets tangled up in all the litter. Dodging right and left, he clears the litter. Hoping that the worst is behind him, he continues on his journey. But instead, suds surround him. <DROP IN SOAPY WATER / BUBBLES> Campers are washing their dishes and clothes in the stream! Fred burps some bubbles, and hurries on! He begins to dream of the stream back at the nature preserve.

Fred finally turns back after running into a green nasty cloud. <DROP IN 1-2 DROPS OF GREEN FOOD COLORING> It was caused by leaking toxic waste at the Green Gunk Factory. The barrels have rusted through, and the holes are allowing the waste to leak out.

<TAKE FRED OUT> How does he look? How does he smell? What can we do to help Fred?

CLEAN FRED UP AND REPLACE THE POLLUTED WATER WITH CLEAN

After a hard return journey, Fred arrives back at his nature preserve with the nice clean water. <DROP FRED BACK IN THE CLEAN WATER>

DISCUSSION: Depending on the age and knowledge you can discuss water treatment, Water Cycle, Filtration, Recycling, Responsibility of people and different ways we can keep this from happening to other fish.

Keep it simple!!!