

Fishing Game 3-5

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Lesson

Present day research estimates there is 150 million tons of plastic in the ocean. In a business-as-usual scenario, the ocean will contain one ton of plastic for every three tons of fish in 2025. By 2050, the ocean will contain more plastic than fish, by weight. The most popular source of plastics found in the ocean are from activities on land. In fact, 80 % of plastics come from the trash you throw away on land. So, how does it get into the ocean? When we throw a plastic bottle on the street, the wind blows it & It travels into a sewer drain. This plastic bottle goes through the sewer pipe & into the waterways, then wind & tide carry into the ocean. We love to eat lunch & consume cold drinks at the beach. It is no wonder that 9 of the 10 most popular trash items found in our ocean are food related. In some cases, people leave their trash behind or some may place it into the bin & it gets overloaded & falls to the ground. Either way, the wind blows it & the waves & tide take it out into the ocean. Surprisingly, items we use daily, toothpastes, cleaning products, & clothing all contain fine plastic called microbeads which our sewage treatment plants cannot filter & this end up in our ocean. Another source of plastics in the ocean comes from factory wastes, especially the waste factories that produce plastics or use plastic as the ingredients. Some factories want to avoid the cost of filtering their wastes & illegally dump their waste directly into the ocean. Plastics can also get into the ocean from boats & ships at sea, some people working or traveling might throw trash into the sea. Occasionally, containers from these boats & ships fall into the sea when there is bad weather that causes rough waves. No matter how it gets in the ocean, sea creatures eat these plastics, getting poisoned or choked to death. Other devastating results include creatures getting trapped in plastics, baby turtles getting deformed shells & food chains altered. To help avoid trash getting in the ocean, bring a reusable bag to put it in. Take it home & separate the recyclables. If everyone took responsibly for their own trash, less would end up in the oceans. Plastic pollution affects not only your life, but the whole planet & all its living inhabitants.



Top 10 Items Found In The Ocean:

Cigarette butts (2,117,931), Food wrappers / Containers (1,140,222), Beverage Bottles (1,065,171), Plastic Bags (1,019,902) Caps / Lids (958,893), Cups, plates, forks, knives, spoons (692,767), Straws / Stirrers (611,048), Glass beverage bottles (521,730), Beverage cans (339,875), Paper Bags (298,332), Glass beverage bottles (521,730), Beverage cans (339,875), Paper Bags (298,332)



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Other Learning Resources

Questions For Students

How does a bottle thrown on the street end up in the ocean?

When eating at the beach, how do food wrappers get in the ocean?

Name 2 things that contain microbeads.

What can happen to sea creatures if they eat plastic?

What can you do to be responsible for you own trash.?

9 of the 10 top items found in the ocean are food related, what is the other item?

Books to Read

Duffy's Lucky Escape!

by Ellie Jackson & Liz Oldmeadow -- <https://wildtribeheroes.com>

A Planet Full of plastic : & How you Can Help

by Neal Layton

Videos About Waste in the Environment

https://www.youtube.com/watch?v=ju_2NuK5O-E

<https://www.youtube.com/watch?v=HQTUWK7CM-Y>





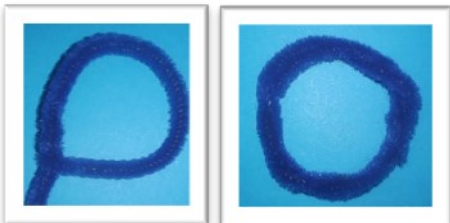
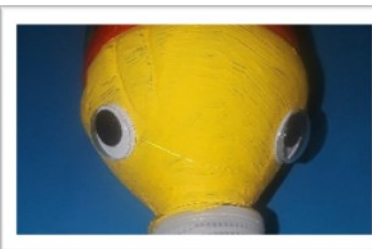
Materials For Fish

- Plastic Bottle & Large bottle cap
- Paint & Paint Brush
- Pipe Cleaner, Googly eyes
- Hot Glue

Instructions

For the Fish

1. Collect all your materials.
2. Take lid off bottle & squeeze the back end to shape like a fish.
3. Paint the fish a solid color & let dry.
4. When dry replace the lid & paint designs on fish. Let dry.
5. Decorate with stickers.
6. Hot glue the large bottlecap on bottom so it can stand on floor.
7. Then hot glue the eyes on each sided.
8. Fold the pipe cleaner down & wrap the end making a 2 inch circle. Now wrap the other end around the circle, to strengthening the loop. Hot Glue the loop to the top of the fish.
9. Add glue over the loop in a back & forth motion. Making a square of glue on top of the loop. Repeat all steps to make multiple fish. Now your ready to make the pole!



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Materials For Fishing Pole

- Stick or long tube
- 42" piece of Yarn or String
- Pip Cleaner, Washi Tape, Pompoms, Feathers
- Hot Glue

Instructions

For the Fishing Pole

1. Place piece of 2" tape across the bottom of stick where it was broken off. Now wrap the tape around the branch coming upward for about 4". This makes a safe handle, so the no one gets splinters in their hand.
2. Cut a 4" piece of yarn & set aside. Tie the rest of the yarn around the end of the stick, run a line of hot glue about 2" long up the stick, going over the knot. Wrap the yarn around the stick. Be careful not to burn your fingers. Run glue over the wrapped yarn & tuck in the end where you tied it.
3. Take the 4" yarn & hot glue the pom poms & feathers on each end. Then tie onto the yarn on fishing pole. Having one side longer than the other.
4. To make the hook, fold the pipe cleaner in half, wrap one side of the piper cleaner around the other, again reinforcing it to make it stronger. Now loop the top to make a circle & twist the ends to secure it. Take the bottom & curve it to look like a hook.
5. You can adjust the length of the yarn at this time, cut the yarn to your desired length. Remember to keep in mind you need to a couple inches to tie on the hook. Tie on your hook
6. Now you ready to go fishing. How long will it take you to catch your fish? If you make more than one set, you can challenge your family members or friends to see who can catch



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