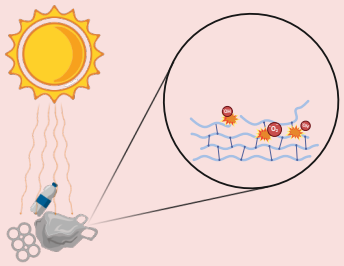
UV-Weathering



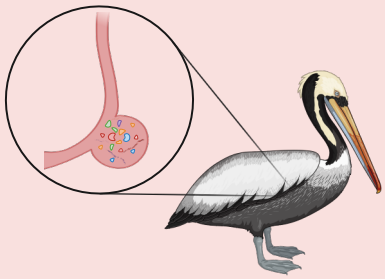
The bright sun bombards your plastic with UV light. Reactive Oxygen Species attack the surface of your polymer chains. **Fragment 1 microplastic, and the next time you fragment, instead fragment twice as many. Give this card to your target as a reminder!**

Microbial Digestion



You develop a biofilm crawling with bacteria and other microbes. Their digestive enzymes break apart the surface of your polymer into tasty chunks. **Fragment 1 microplastic.**

Animal Consumption



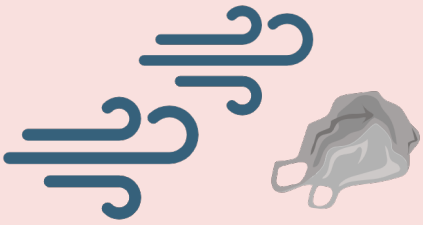
You've been munched on by an animal! You get chomped by the animal's mouth and then experience some powerful digestive enzymes in the animal's stomach. **Fragment 2 microplastics.**

Mechanical Abrasion



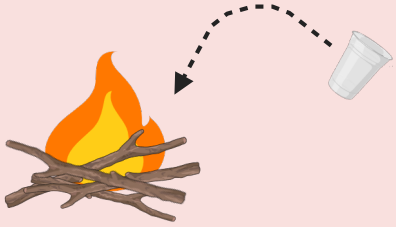
You get tossed into a nearby river. It is a VERY windy day, and the waves crash on the surface of your plastic. **Fragment 1 microplastic.**

Mechanical Abrasion



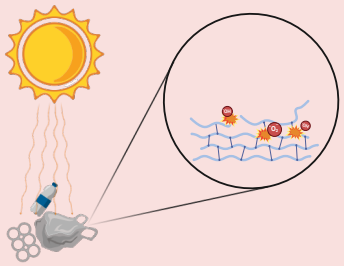
Your plastic pretends to be a tumbleweed in the heavy wind. You scrape against the roadside as you're blown from one place to another. **Fragment 1 microplastic.**

Thermal Degradation



Someone accidentally threw your plastic into their bonfire. You're pulled out before you completely melt, but you definitely felt the heat. **Fragment 2 microplastics.**

UV-Weathering



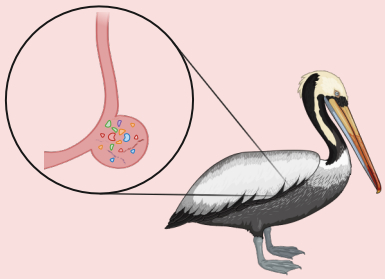
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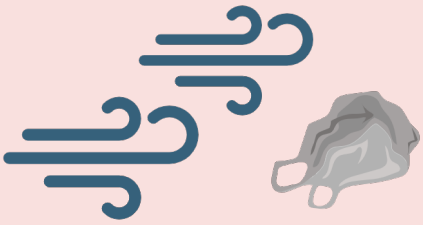
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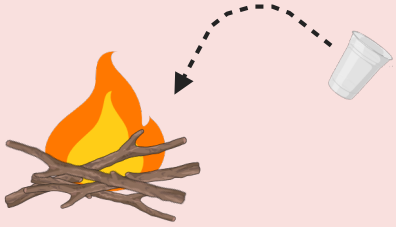
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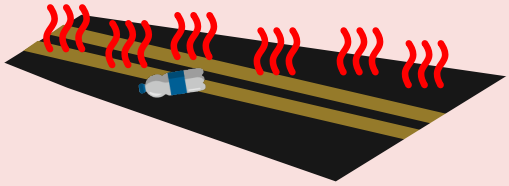
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Thermal Degradation



It is a HOT summer day and your plastic is left out on the blacktop and exposed to the heat. **Fragment 1 microplastic.**

HURRICANE!



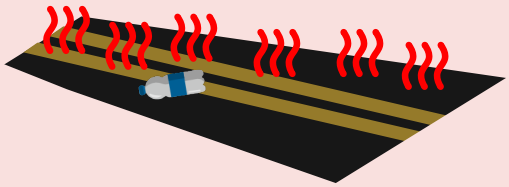
PLAY THIS CARD AS SOON AS YOU DRAW IT. A hurricane blows through the coastal city! Trash cans get knocked over! Flood water washes waste all around the city! **Everyone fragments 2 microplastics.**

Urban Runoff



It's a particularly rainy day. Water flows off the streets of the city, washing away plenty of plastic along with it. **Everyone fragments 1 microplastic.**

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River Boom



The city installs a boom, or a floating waste filter, in the local river. Now, floating plastics get removed before they wash out into the bay! **Prevent the next fragmentation from any source.**

Single-use Plastic Boycott



People of the city embrace re-using their single-use materials. Your plastic is re-used again before it enters the waste stream. **Prevent the next fragmentation from any source**.

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Improved Access to Waste Storage



The city has provided new trashcans with built-in compactors on every corner. **Prevent fragmentation the next time you're targeted by another player.**

Improved Access to Waste Storage



The city has provided new trashcans with built-in compactors on every corner. **Prevent fragmentation the next time you're targeted by another player.**

Green Infrastructure



The city has begun planting roadside vegetation to catch urban runoff before it gets released into the bay. **Prevent the next fragmentation from any weather or runoff related source.**

River Booms - River Vectors by Vecteezy

Single Use Plastic - https://www.vecteezy.com/vector-art/20862649-no-plastic-bag-illustration-concept-on-white-background

Green Infrastructure - https://www.vecteezy.com/vector-art/56698457-an-illustration-of-a-city-with-green-trees-and-buildings-on-a-white-background

Big Belly Trash Compactors - Photo by Bailey Stewart (@alwaysangstyyy)

Created in BioRender. Green, W. (2025) https://BioRender.com/mrujy0h

Single Stream Recycling



A convenient way to dispose of recycling, but not very efficient in the waste management world. **Take one microplastic from the Environment and add it back to your personal cup.**

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Plastic-Sorted Recycling Dropoff



Special bins located outside the recycling facility allow citizens to sort their plastics to increase recycling efficiency. **Take two microplastics from the environment and add them back to your cup.**

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Single stream recycling (CC) - https://commons.wikimedia.org/wiki/File:Single_Stream_Recycling.JPG

Plastic-Sorted Recycling Dropoff - https://www.vecteezy.com/vector-art/35999159-waste-management-concept

The Rules

1. Each player starts with one card and 10 "microplastics". The player that recycled last starts.
2. On your turn, draw one card, and play one of the two cards in your hand on your friend or yourself! Each card describes its ability.
3. Once each player plays 2 cards, the round is over.
4. Players then record the total microplastics now on the Environment Board and how many of their microplastics remain in their cups
5. Refill your plastic reservoir from the "Plastic Factory"
6. Once you're ready, raise your hand to let your teacher know!

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Beach Clean Up



A group from the local school decides to do a beach cleanup. **Everyone transfers 1 microplastic from the Environment Board to the Landfill!**

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Street Sweepers



The city's cleaning crew sweeps through the city and removes as much waste as they can from the street. **Transfer 3 microplastics from the Environment Board to the Landfill!**

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Beach cleanup - https://www.vecteezy.com/vector-art/68136623-3d-isometric-flat-illustration-of-environmental-water-pollution-volunteers-cleaning-sea-shore-from-plastic-and-other-trash

Street sweeper - https://www.vecteezy.com/vector-art/72516578-street-sweeper-efficient-city-cleaning-illustration

Urban Runoff - https://www.vecteezy.com/vector-art/4595893-trash-into-sewer-cause-flood-in-city-flat-illustration-vector-background

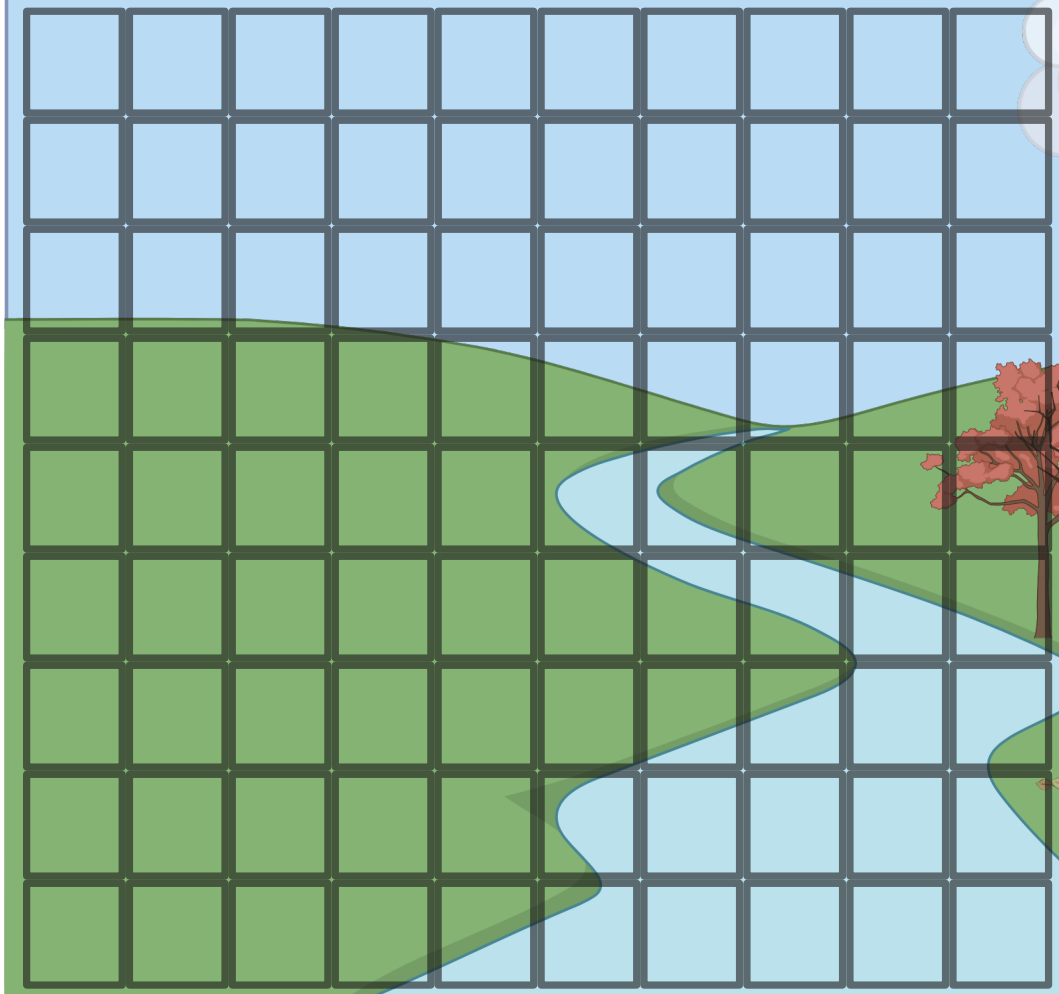
Hurricane - https://www.vecteezy.com/vector-art/372642-natural-disaster-scene-with-hurricane

Mechanical Abrasion - https://www.vecteezy.com/vector-art/73328408-abstract-blue-ocean-wave-illustration-with-splash-elements

The Environment

Whenever you "Fragment" a microplastic, it ends up here!

Place them in the box below to help you count



10 Fragments