

How it's Made

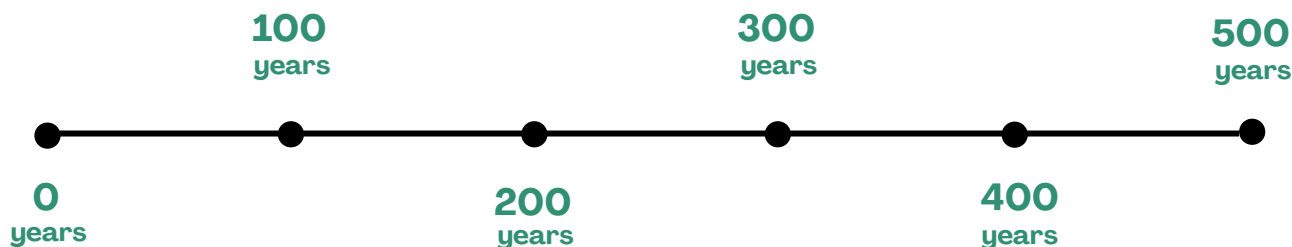
Two Truths and a Lie

You know the game. Among the statements below, two are true and one is a lie. Circle the lie. Explain your reasoning in the space provided below.

1. Most plastics are made from nonrenewable fossil fuels, like oil and natural gas
2. Plastic will eventually biodegrade into natural elements, including carbon dioxide, water, and biomass.
3. When exposed to sunlight, plastic will photodegrade over time.

How Long Till It's Gone?

How long will it take these plastic items to break down in the environment? Complete the activity and write in the names of the items where you think they belong on the timeline below.



Build a Plastic Polymer

What is the name of the process that opens the double bonds in plastic monomers to create a polymer chain?

The Future of Plastic?

The compostable plastics at this station are NOT accepted at Tacoma's composting facility. Why not? Use information from this station to support your claim.

Popular Plastics

What's Your Type

Not all plastics are recyclable. Use a Tacoma *Recycle Right* guide to name the **three** types of plastic that are accepted for recycling in Tacoma.

1. _____
2. _____
3. _____

True or False?

Plastic resin identification codes are symbols that tell us a product is accepted for recycling.

Is the statement above true or false? Record your answer in the space below and use information from this station to support your claim.

The Cost of Convenience

If you used one disposable water bottle every day, how long would it take for you to spend *more* money than the cost of one reusable water bottle?

Show your work and circle your answer in the space below.

This or That?

Take a look at the *5 Single-Use Plastics You Can Quit Today* graphic. For each of these items, find a reusable replacement at this station. Write down your replacements in the space below.

Single Use Plastic	Reusable Replacement
Plastic shopping bag	
Plastic sandwich bag	
Plastic water bottle	
Plastic utensils	
Plastic straws	

Waste Not. Want Not.

The Invisible Threat of Plastics

There are two body product containers at this station. Compare the ingredients of the two products. Does either product contain microplastics? Would knowing that a product contains microplastics influence your decision to use it?

The Life Cycle of a Plastic Bottle

Complete the life cycle activity and answer the following questions. Use information at this station to support your answers.

1. Is the plastic bottle's life cycle part of a **linear** or **circular economy**? _____
2. How could we reduce waste during the plastic bottle's life cycle?

A Wasteful Economy

1. How is waste handled in an ecosystem?

2. Which is most similar to how waste is handled in an ecosystem - a linear economy or a circular economy?

The Solution to Pollution

Draw and read one of the *Solution to Pollution* cards at this station. Answer the questions below and use information from this station to support your claims.

Did this solution reduce waste?	Did this solution prevent pollution?	Do you think this solution would work in Tacoma? Why or why not?