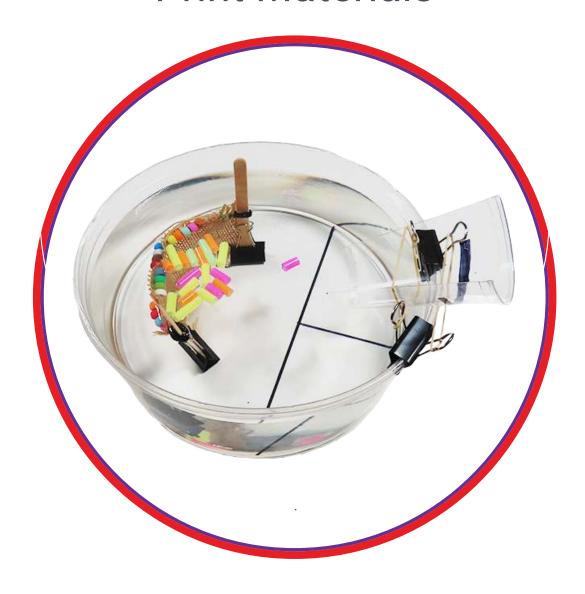
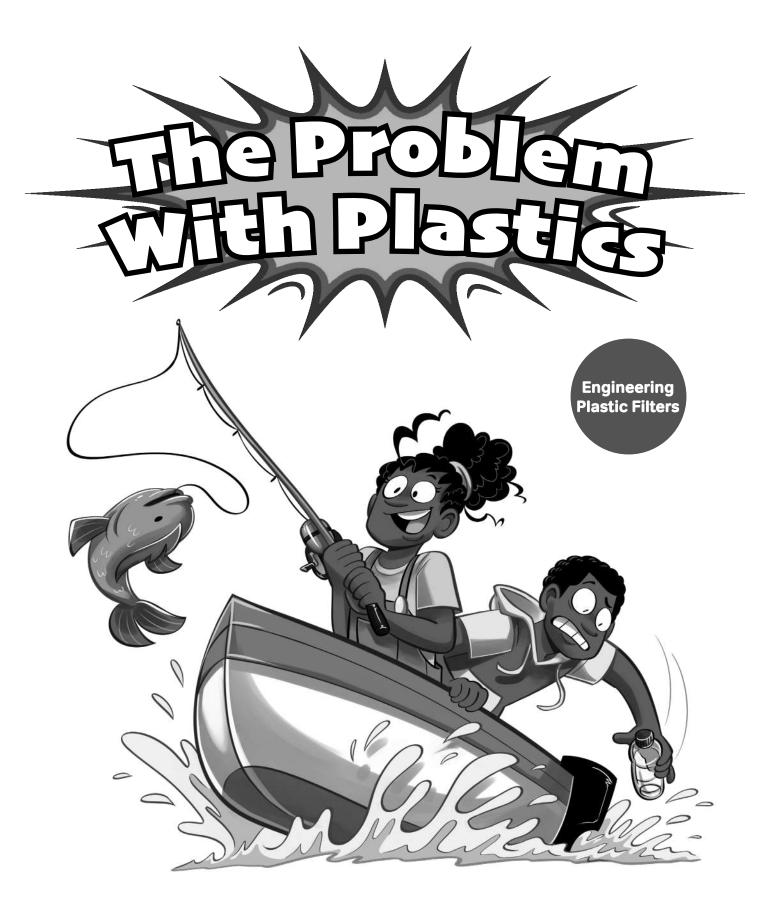
# Massachusetts STEM Week 2024

# **Engineering Plastic Filters**



# **Print Materials**





Written by the YES Elementary Team

Illustrated by Hannah Daigle





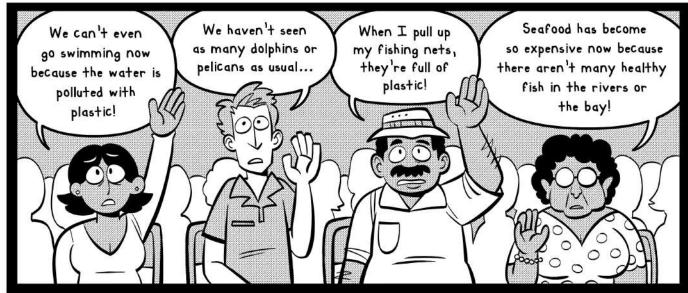
#### Chapter 1 continued











## Chapter 1 continued

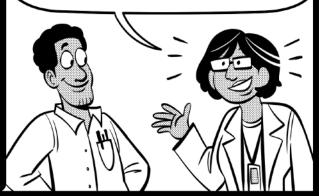


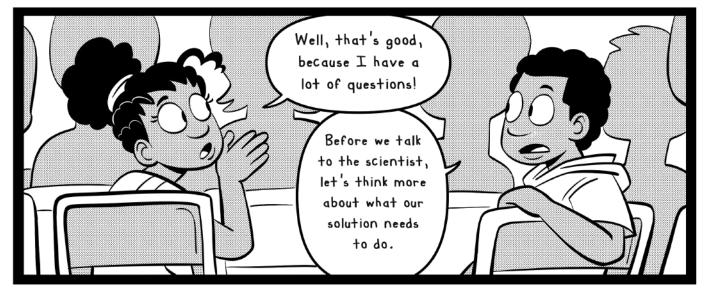


I'm an engineer. I solve problems like this as part of my job. Even for a complicated problem like this, we use the Engineering Design Process to find solutions.



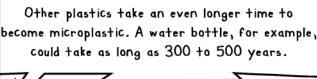
And I'm a scientist. I can help, too.
I know a lot about this bay, and I
know a lot about pollution, too! You
can ask me anything.

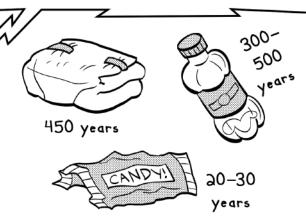




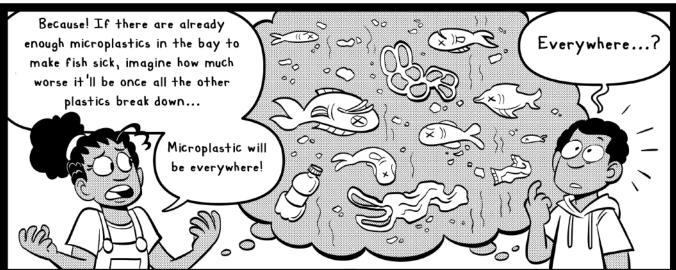


#### Chapter 2 continued

















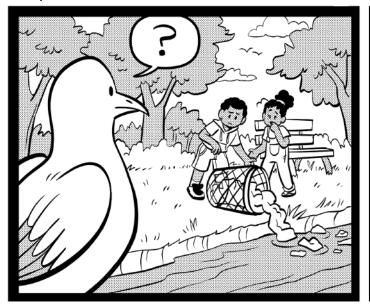








## Chapter 3 continued



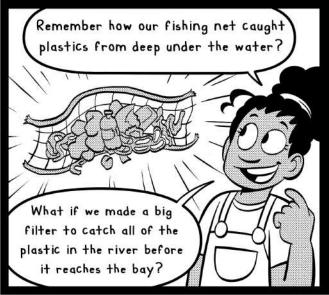


















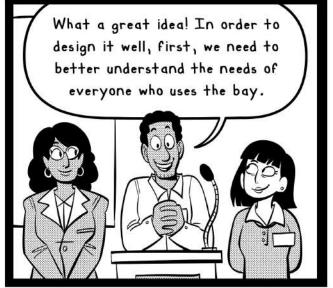


#### Chapter 4 continued





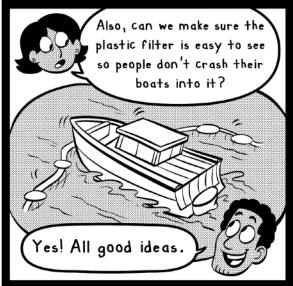
We think we can help solve the problem using the Engineering Design Process to create a plastic filter that will prevent plastic pollution from entering the bay!





#### Chapter 4 continued





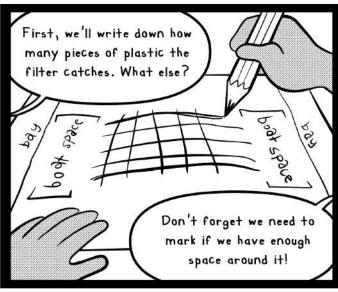


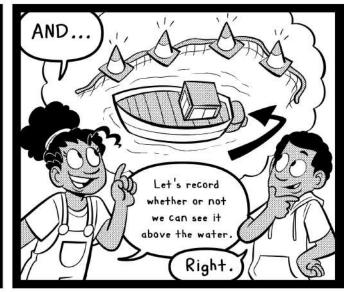


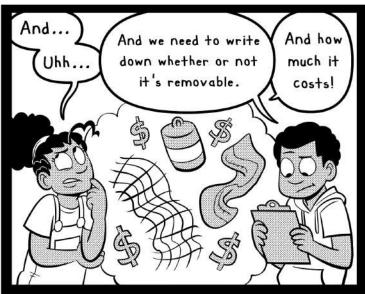












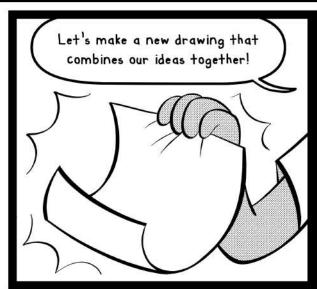


#### Chapter 5 continued























#### Chapter 6 continued







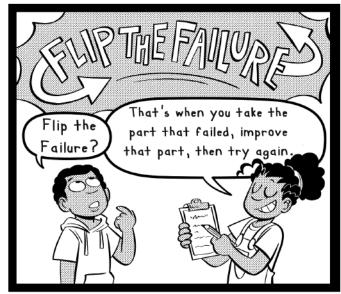


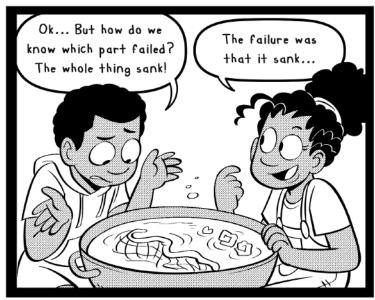


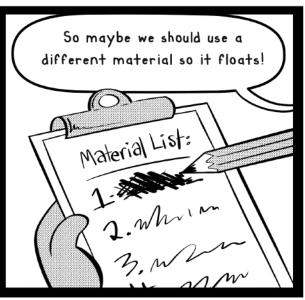




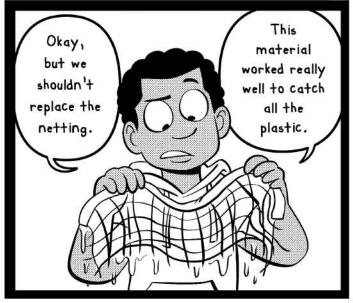








## Chapter 7 continued



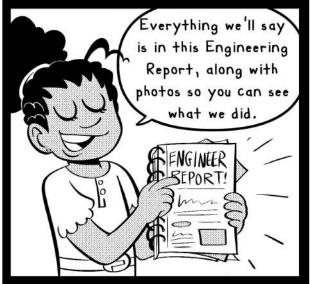


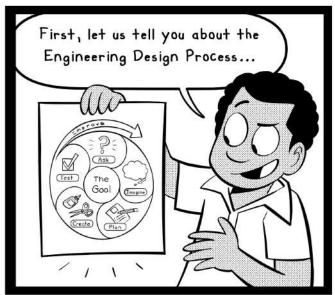


















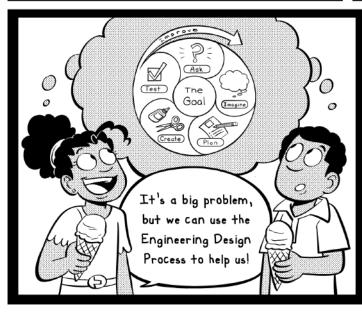
## Chapter 8 continued

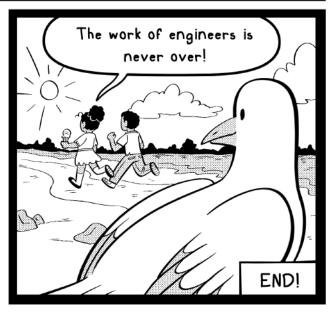












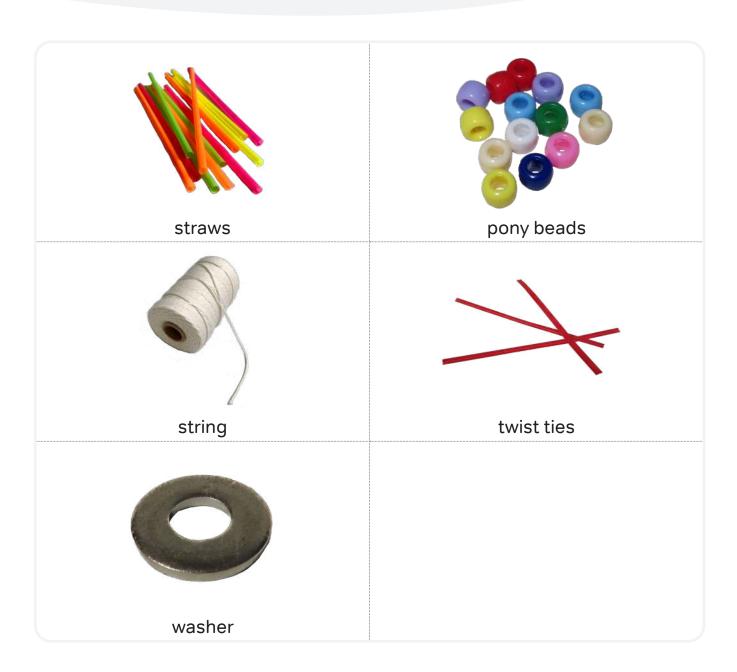
# **Materials Glossary**







# **Materials Glossary**



mes:		Names:	
st Our P	Plastic Filter	Test Our	Plastic Filter
#	of Plastic Pollutants Caught		# of Plastic Pollutants Caught
est 1		Test 1	
st 2		Test 2	
st 3		Test 3	
est 4		Test 4	
est 5		Test 5	
mes:		Names:	
ames: st Our P	Plastic Filter	1	· Plastic Filter
st Our P	Plastic Filter # of Plastic Pollutants Caught	1	
st Our P	of Plastic Pollutants	1	# of Plastic Pollutants
st Our P	of Plastic Pollutants	Test Our	# of Plastic Pollutants
st Our P	of Plastic Pollutants	Test Our	# of Plastic Pollutants
est 1	of Plastic Pollutants	Test Our Test 1 Test 2	# of Plastic Pollutants



## **Plan Our Plastic Filter**



Agree on one plan. Draw a labeled diagram of the design. Mark where you will place it in the model bay.

	Bay River
Which materials will you need?	How many of each?