

Activity	Directions	Materials	Duration
<p>What is Marine debris?</p>	<p>Choose lab partners. Discuss the following</p> <ol style="list-style-type: none"> 1. Define the problem - Why is it dangerous? 2. Predict - What will we find? 3. Propose - How does it get there? How long does it take to break down? 4. Choose a question to try to answer <p>Download Debris Tracking app at http:// www.marinedebris.engr. uga.edu</p>	<p>Smartphones</p>	<p>20 minutes</p>
<p>Transects and “Report It”</p>	<ol style="list-style-type: none"> 1. Safety/Procedure briefing 2. Discuss Shoreline Characteristics 3. Check tide data 4. Complete Additional Data section of Debris Density Data Sheet 5. Mark the transects (see directions on Quick Reference Guide) 6. Walk the transects (per directions) 7. Record Macro Debris (see lab sheet) 8. Take photos of the site and some debris 9. Submit data via Smartphones and debris tracking app 	<p>First Aid Kit, Data sheets, Smartphones with cameras, Map of beach, buckets, gloves, clipboards, pencils, measuring tape, flags, sticks for drawing lines, hand sanitizer, tweezers, sample bottles</p>	<p>1 hour</p>

Activity	Directions	Materials	Duration
Marine Debris Sorting for < 2.5cm	<ol style="list-style-type: none"> 1. Mark quadrants (see directions on Plastic Beach Project handout) 2. Assign lab partners to a quadrant 3. Find micro plastic using step-by-step procedure (see handout) 4. Record data on lab sheet 5. Sort items according to worksheet 6. Record totals 	Quadrant lab sheet, MDS worksheet, 5mm and 1mm sieves, 5 - gallon bucket, trowels, scale (w/batteries), meter sticks, clipboard, pencil, micro marine debris, bags for collection	1 Hour
Toss it	Collect Macro/Micro debris and place in trash bags and buckets for removal	Gloves, buckets, trash bags	15 Minutes
Lunch			30 Minutes
How Long Until It's Gone Sort	<ol style="list-style-type: none"> 1. Take turns trying to put the debris cards in the correct order for time it takes to biodegrade 	Marine debris cards, Decomp chart	During lunch
Marine Debris Data Exploration	<ol style="list-style-type: none"> 1. Review data 2. Make bar graphs, etc to represent data 	Smartphones, markers, rulers, graph paper, clipboards, raw data (page 37)	30 Minutes (during micro plastics water quality testing)
Microplastics and water quality	<ol style="list-style-type: none"> 1. Lab partners rotate 2. Take water samples (no foam, below surface) 3. Prepare slides 4. Look for micro-plastic in the water sample 	Microscopes, jars for water, slides, flat surface for microscopes	30 Minutes (during Marine debris data exploration)

Activity	Directions	Materials	Duration
Wrap-Up	1. Share results 2. Compare results to predictions, etc 3. Discuss: Did you answer your initial question? How can we solve this problem? Behaviors? Laws? Volunteering?	Lab Sheets, Computers, internet	20 Minutes
A Scientific Clean-up (the road)	Clean-up the road-in	Trash bags, gloves, buckets	30 Minutes