



## Educational Resources for Remote Recycling Learning: High School

These resources have been compiled to help you teach about reducing, reusing, recycling, and composting in conjunction with a unit on natural resources, conservation, or environmental science. I hope that this resource helps you spark a discussion and keep students focused on how they can continue to recycle and compost even while they are out of school.

Questions? Contact us: [outreach@marinsanitary.com](mailto:outreach@marinsanitary.com) or 415-456-2601

### Recommended Activity: Material Life Cycle Analysis

- Ask students to pick a material that they have been frequently encountering while they have been at home (cardboard delivery boxes, plastic drink bottles, aluminum soda cans, plastic bags, paperboard pasta boxes, etc.). Ask them to complete a Life Cycle Analysis on this material. What they should be trying to find out is some variation of the following:
  - What natural resource is this material sourced from? (E.g. oil, ore, trees, etc.)
  - What is the extraction and production process like? What effect do these processes have on the environment?
  - Can this product be recycled? You can refer students to the “[Where Does it Go, Joe?](#)” tool on the Marin Sanitary Service website, or our [flyers and posters](#) section if they become confused about this.
  - What is the environmental impact of recycling or landfilling this item?
  - What is the environmental impact of this item being littered or escaping out into the natural environment?

### Recommended Activity: Visual Waste Assessment

- Have students complete a “waste log” in which they keep track of:
  - What they are disposing of
  - How they are sorting each material
  - Connected to their life cycle analysis above: what happens once they put their items in the trash, recycling, or compost?
  - Ask them to make a visual estimation of what percent of their waste is trash, recycling, and compost
  - Ask them to reflect on the experience:
    - Were they surprised by the amount of things they threw away?
    - Were they surprised by the volume of recycling, trash, or compost they had?
    - Have their observations led them to think of any ideas to change their behavior?
    - Does this visual waste assessment have any applications to their regular daily life?

### Reading Resources:

- *The Guardian* has an entire series of articles called “The United States of Plastic” that explore the depth and breadth of our plastic problem
  - Link: <https://www.theguardian.com/us-news/series/united-states-of-plastic>
- *National Geographic* also ran an entire issue of their magazine called “Planet or Plastic?” and they keep a page on their website updated with recent articles, actions people have taken, and various pledges and ways to get involved.
  - Link: <https://www.nationalgeographic.com/environment/planetorplastic/>

## Video Resources:

- “Takeout creates a lot of trash. It doesn’t have to.” From The University of California Climate Lab series of videos.
  - Description: This video dives into how pervasive single-use plastic items are, especially in takeout, and how we can be more mindful about this problem.
  - Link: [https://www.universityofcalifornia.edu/climate-lab?utm\\_source=August+2019+Newsletter&utm\\_campaign=August+2019+newsletter&utm\\_medium=email](https://www.universityofcalifornia.edu/climate-lab?utm_source=August+2019+Newsletter&utm_campaign=August+2019+newsletter&utm_medium=email)
- “Why your recyclables might have no place to go” from PBS News Hour (~8:00 minutes)
  - Description: This video gives a good explanation of the way China’s National Sword policy has disrupted US markets.
  - Link: <https://www.youtube.com/watch?v=UAWCK--pmZ0>
- “California faces recycling crisis” from ABC7News
  - Description: Local news outlet covers problems in the recycling industry, and visits MSS.
  - Link: <https://www.youtube.com/watch?v=Z4v7jG1MvmM>
- “What really happens to the plastic you throw away?” from a TED Talk (~4:00 minutes)
  - Description: Describes the different things that could happen to plastic water bottles after they are used.
    - Note: If you show this video, encourage students to think about the products that recycled plastics make – are any of them recyclable? Usually not.
  - Link: [https://www.ted.com/talks/emma\\_bryce\\_what\\_really\\_happens\\_to\\_the\\_plastic\\_you\\_throw\\_away?utm\\_campaign=tedsread&utm\\_medium=referral&utm\\_source=tedcomshare](https://www.ted.com/talks/emma_bryce_what_really_happens_to_the_plastic_you_throw_away?utm_campaign=tedsread&utm_medium=referral&utm_source=tedcomshare)
- “The Story of Plastic” from The Story of Stuff Project (~4:00 minutes long)
  - Description: Details what is going on behind the scenes with our plastics, and what happens to them after we put them in the recycling bin.
  - Link: [https://youtu.be/urFZ5o0az\\_4](https://youtu.be/urFZ5o0az_4)
- “The Story of Stuff” from The Story of Stuff Project (~20:00 minutes)
  - Description: Focuses on how our linear “stuff” economy can’t work on our finite planet with finite resources.
  - Link: <https://youtu.be/9GorqroigqM>
- “The Story of Bottled Water” from the Story of Stuff Project (~8:00 minutes)
  - Description: Explores how the water bottle industry created demand for a product we do not need, and why we should opt for refillable water bottles.
  - Link: <https://youtu.be/Se12y9hSOM0>
- “We can recycle plastic” from a TED Talk (~10:00 minutes)
  - Description: Talks about the issues with recycling plastic and how one business owner innovated a way to process plastic for reuse.
    - Note: If you show this video, encourage students to think about the products that recycled plastics make – are any of them recyclable in curbside recycling programs? Usually not.
  - Link: [https://www.ted.com/talks/mike\\_biddle](https://www.ted.com/talks/mike_biddle)

## Documentaries

- “Plasticized” (48 minutes)



- Description: Documentation of the 5 Gyres Institute's research on ocean plastic pollution, and their research cruise to collect data. Illustrates the scale of the issue of small pieces of plastic in virtually all parts of the ocean. \*Note that they do use 1-2 swear words when interviewing the scientists. Probably best for a high school audience.
- Link: <https://www.youtube.com/watch?v=dfcRW7srPI>