

#### TEACHER'S NOTES

##### Task 1: The History of Recycling

Go to this website: <http://en.wikipedia.org/wiki/Recycle#History> to answer the following questions.

1. What two things cause recycling to peak? Refundable deposits on drink bottles and containers. Garbage collections charged by weight.
2. The modern recycling movement in the United States actually started with a New York garbage barge in 1987. What was the name of the barge? MOBRO 4000
3. Why did Morehead City deny the New York barge permission to unload its garbage? Because there rumors that it contained medical waste

##### Task 2: Resin Identification Codes

Go to this website [http://en.wikipedia.org/wiki/Resin\\_identification\\_code](http://en.wikipedia.org/wiki/Resin_identification_code) to answer the following questions.

1. At the moment, what are the only three types of plastics that are economically viable to recycle? at the moment it is only economically viable to recycle PETE, HDPE and PVC.
2. Why can't different types of plastics be mixed together when recycling? The different kinds of plastics can't be mixed together to be recycled. ... reprocessed into a new item, because different resins melt at different temperatures
3. What is the name of the polymer used in soft drink bottles? Polyethylene terephthalate (sometimes written poly(ethylene terephthalate)), commonly abbreviated PET, PETE, or the obsolete PETP or PET-P is a thermoplastic polymer resin of the polyester family and is used in synthetic fibers; beverage, food and other liquid containers

##### Task 3: Recycling of PET Bottles

Use this webpage [http://en.wikipedia.org/wiki/Recycling\\_of\\_PET\\_Bottles](http://en.wikipedia.org/wiki/Recycling_of_PET_Bottles) to answer the following questions.

1. Where is the recycle code found on the container? At the bottom of most plastic containers
2. What post-consumer color fraction costs the most? Colourless/light blue post-consumer PET attracts higher sales prices than the darker blue and green fractions
3. What post-consumer color fraction is the least valuable? The mixed color fraction is the least valuable.