

Appendix B

SOLUTIONS

- Which one of the following is not a type of naturally occurring glass?
 - Fulgarite (found in arid regions)
 - Anthracite (found in large mountains)**
 - Moldavite (found in the Czech Republic)
 - Tachylite (found near volcanoes)
- Which one of the following is not a resin used in making plastic?
 - Polyethylene**
 - Polypropylene
 - Pylovinyl chloride
 - Polyketide**
- Which of the following is never acceptable in any recycling program? Use the 'other' box to briefly explain why.
 - Corrugated cardboard pizza box with grease on the bottom**
Grease is impossible to remove from a batch of paper pulp. The only option is to discard the batch when grease from food has been introduced.
 - Plastic Chinese food carryout box with sauce still in it
Plastics are melted at high temperatures, so food and grease are incinerated. Food is a nuisance for the workers who have to sort and move loads of recyclables, but it does not ruin a batch.
 - Glossy magazines
 - A computer with a virus
- As recyclable materials, aluminum and glass have one quality in common. What is this quality?
Unlike paper, which can undergo only several generations of recycling before it has no further re-use value, aluminum and glass can be recycled over and over with zero degradation.
- Aluminum is unique among packaging materials for what reason? (hint: it is related to the reason dumps are looted for soda cans but not soup cans.)
The collection and recycling of aluminum bring in more money than these processes cost.
- Why are clear glass Pyrex measuring cups not permitted in the "clear glass" bin at recycling centers?
Pyrex is made from borosilicate glass, which is formulated to resist temperature-related breakage. Different glass types have different melting points, and Pyrex glass is not compatible with beer bottle glass.
- Recycling program guidelines usually indicate that lids should be removed from plastic bottles. There are several reasons for this. Name one reason, besides "to save space."
 - To save space (although this is a valid reason, the survey was meant to test for deeper knowledge)**
 - Compacting a load with capped bottles may result in projectile lids, posing a hazard to workers.**
 - Lids are sometimes made from a different plastic resin type than accompanying bottles, so they are recycled in separate processes.**