Lab Sheet: Option B – Recycling Challenge

Materials needed	• cardboard • newspaper • steel cans • aluminum cans • glass bottles • plastic bottles • various classroom/home supplies (elastics, skewers, popsicle sticks, magnets, tape, pipe cleaner, paper plates, plastic cups, string, paper clips, etc.)
Hypothesis What do you think will happen?	
Procedure	1. Develop a plan that outlines a process for sorting the recycling. Consider what needs to be sorted first, the materials you'll use, and what you will need to build. Include a drawing of your invention. The primary goal is to invent an efficient recycling system, but the recycling facility is looking for a design that is both efficient and cost effective.

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Procedure	2. Build your recycling system; this step includes any trial runs and modifications. 3. Use your recycling system to sort the components (cardboard, paper, steel, aluminum, glass, plastic, waste).
Observations *Remember observations can be recorded with pictures, numbers, and/or words!	Create a diagram of what you have designed, how you separated each substance individually.
Conclusions	
Questions	• What should someone consider when designing a separating technique for a recycling facility? Why?