HELP....

WEST ROUGE HAS A PROBLEM!

The Problem:

Garbage is littering our school yard! Some wrappers and pieces of garbage are being placed in the outdoor garbage bins, but is blowing out on windy days or in some cases people are littering. This is causing a real mess around our school property.

Background Information:

-We currently have three outdoor garbage bins

-Our garbage bins are open air (no solid sides or lids)

-Students eat snacks outside at recess

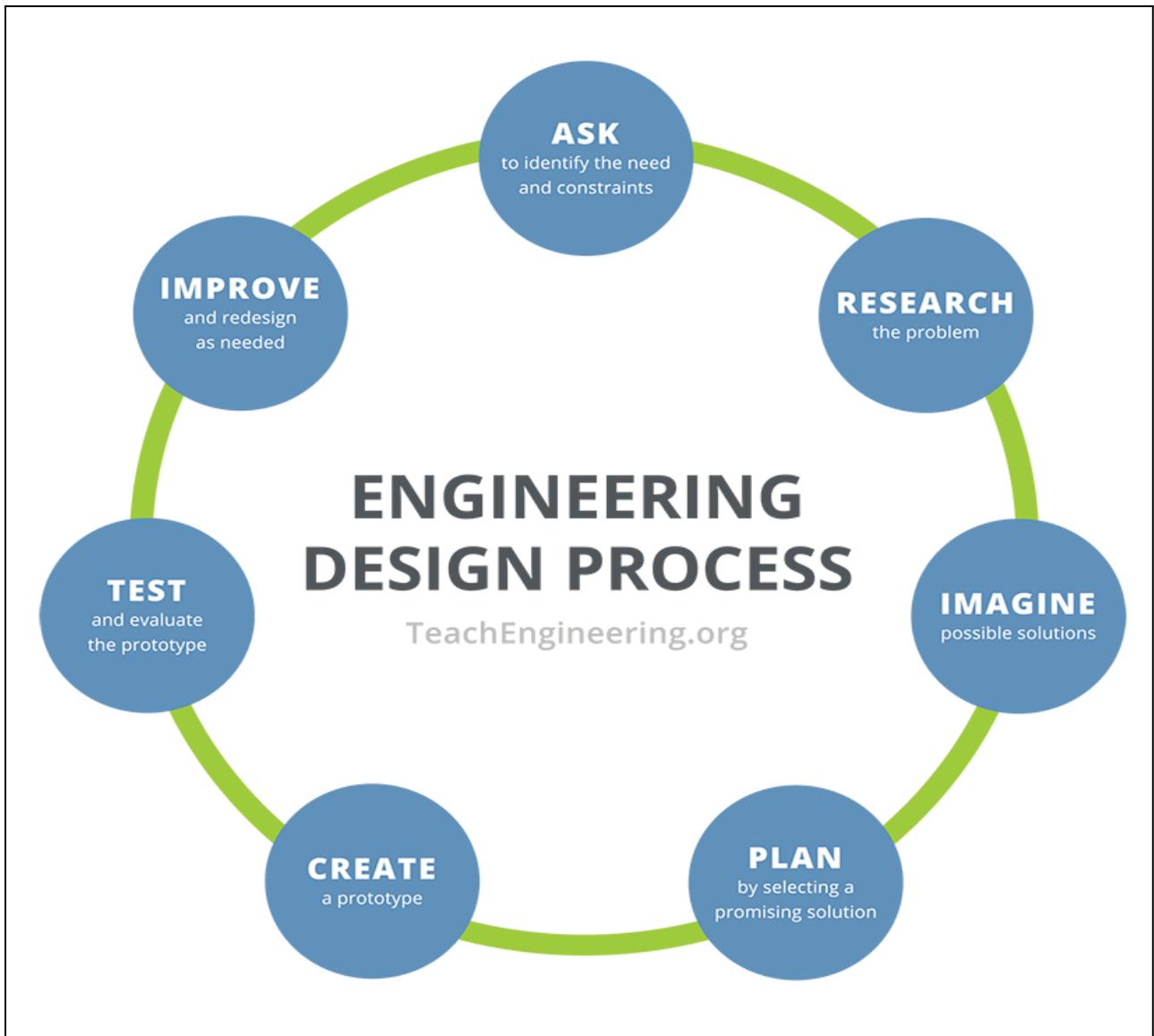-We are a platinum eco school and don't want litter around the yard

Your Solution:

Can you propose a solution to our problem? Use pictures, diagrams, and words (or any other method of your choice) to fully describe your solution to this problem.

Maybe your solution will be the one selected to resolve this real issue facing our school when we return!

Check out the design process template on the next page for help to get started!

Send your ideas and solutions to Mr. Murphy (michael.murphy@tdsb.on.ca) or to your homeroom teacher if you come up with a solution for us to consider! Ideas will be shared with our WECO Team for consideration once we return to school.

ENGINEERING
DESIGN PROCESS

TeachEngineering.org

ASK to identify the need and constraints

RESEARCH the problem

IMAGINE possible solutions

PLAN by selecting a promising solution

CREATE a prototype

TEST and evaluate the prototype

IMPROVE and redesign as needed

The simplified design process template above is similar to the process that students would be familiar with in our Maker Space this year. This process does not have to be followed as this problem and any solution provided by students is meant to be open-ended and completed in any way that students wish. However, if you are looking to dive into this problem more deeply or are looking for a structured way to work through this problem please consider using this process.

We hope that this problem provides students with a real-world learning experience, an opportunity to make our school an even better place to visit and learn, and will continue to provide very strong student voice on issues like this one that affect all of us.

This problem might also provide a great reason to get outside and take a walk through our school yard as a family while keeping a safe distance from others to observe the problem first hand!