

CWSF 2017 - Regina, Saskatchewan



Kate MacMillan

Pretty Solid

Challenge: Resources

Category: Intermediate

Region: Central Okanagan

City: Kelowna, BC

School: KLO Middle School

Abstract: The purpose of this study is to determine the effect of using recycled materials to replace coarse aggregates in concrete to determine if the strength of the concrete if impacted and to determine the benefits to environment. Experiments were reviewed to determine the best aggregate replacement. The aggregate replacements were, rubber, steel slag, concrete waste, demolition waste, E-plastic waste, mangima stone, glass, and Styrofoam.

Biography

Kate MacMillan is a grade 9 student at KLO Middle School in Kelowna British Columbia. Kate is a member of the KLO choir. Kate competitively rock climbs, and she attended the National Bouldering competition this year. Some of Kate's hobbies are reading, drawing and piano. Kate got the inspiration for her project from attending the "Go Girl Engineering" day at UBCO. The concrete toboggan team's presentation was the inspiration for this project. In the future Kate is thinking about pursuing a career in engineering. Kate's advice to other students thinking about doing a project is to choose a topic, and partner wisely.