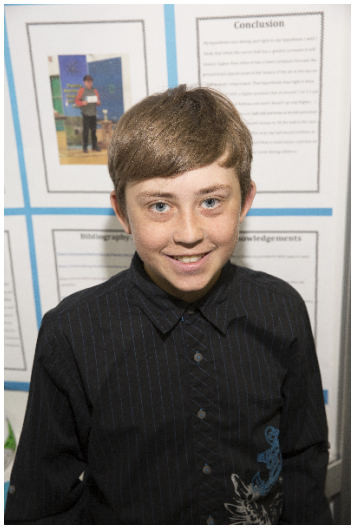
CWSF 2019 - Fredericton, New Brunswick



Aden Jones

Which bounces higher?

Challenge: Discovery
Category: Junior
Region: Pacific Northwest
City: Telkwa, BC
School: Telkwa Elementary School

Abstract: For my experiment, I investigated the influence of inflation pressure on rebound in soccer balls. I used 9 records of bounce height for each pressure. I found that the rebound height as a function of pressure increased at first, then leveled off. This means that at a certain point, inflating with more air doesn't improve the bounce of the soccer ball.

Biography

My name is Aden Jones. I am 12 years old and I live in a small community in Northern British Columbia. We have long winters and I spend a lot of time down hill skiing. During the Spring and Summer I love to ride my bike and play soccer. I also enjoy playing the guitar. I have participated in the local science fair for the past 3 years, and was excited to make it to regionals. I decided to combine my love of soccer and my interest in physics this year to create "Which Bounces Higher". The first study looked at helium versus air, which received silver and an invitation to Nationals. I decided to further investigate the different bounce outcomes using varying pressures in the soccer ball. My advise to others is to choose a topic that interests you, because when you choose something you like, you will work harder at it.