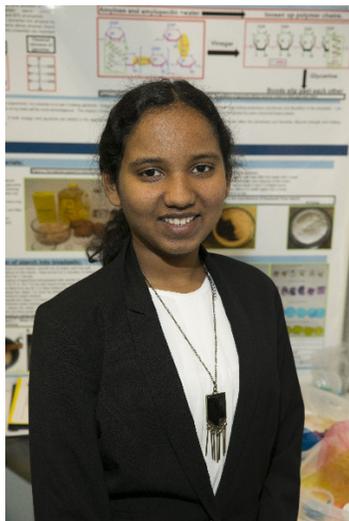


## CWSF 2017 - Regina, Saskatchewan



### Madhumita Chandrasekaran

#### The effect of vinegar and glycerine in starch-based bioplastics

**Challenge:** Environment

**Category:** Junior

**Region:** Manitoba Schools Science Symposium

**City:** Winnipeg, MB

**School:** Acadia School

**Abstract:** I am creating a plastic that doesn't pollute the Earth. By making a bio plastic from organic material, we ensure that it degrades, and doesn't pollute the planet by doing so. I am attempting to see which of my trials will be more advantageous. The flexural strength test, and the folding endurance test were performed on each bio plastic type to test their quality.

#### Biography

My name is Madhumita Chandrasekaran. I am 12 years old, and attend grade 7 at Acadia Junior High school (Winnipeg, Manitoba). I love debating, and Science and Math challenges. I participate in sports such as badminton, basketball, and swimming. I love playing guitar, being in choir, and doing art too. I am currently learning classical dance (Bharatanatyam). I participate in other volunteering activities. My career plan is to be a scientist, and I am particularly interested in biology. My achievements include an outstanding physical sciences award from the Manitoba Schools Science Symposium, an academic achievement award a year earlier, and a best in grade award from my school science fair, among others. I stumbled upon a similar topic using Google Science Fair where a girl named Elif Bilgin made a bio plastic with banana peels. Next year, I plan to make a bio plastic from the residues of Manitoba crops. Since I didn't have the time to do it this year, I am eager to try and accomplish this next year. I would like to encourage other students to participate in Science fair and benefit from the growth it provides by allowing them to make and learn about new discoveries!

Youth Science Canada  
PO Box 297  
Pickering ON L1V 2R4  
www.youthscience.ca / info@youthscience.ca  
416-341-0040