

## CWSF 2011 - Toronto, Ontario



### **Sissonne: The relation between knee angle and impact force**

**Challenge:** Health

**Category:** Junior

**Region:**

**City:** ,

**School:**

**Abstract:** In this project, I explore the possible relation between the impact force and bend angle of the knee during the landing of a sissonne. Young, non-professional, female dancers were asked to jump on a force plate with varying angles of the knee as they land. Force data was recorded and knee angles were analyzed from videos taken of the jumps.

| Awards  | Value   |
|---|---------|
| Excellence Award - Junior - Silver Medal<br>Sponsor: Youth Science Canada   | \$700   |
| The University of Western Ontario Scholarship<br>Silver Medallist - \$2000 Entrance Scholarship<br>Sponsor: University of Western Ontario | \$2 000 |
| Total   | \$2 700 |