

# CWSF 2018 - Ottawa, Ontario



## Liesl Stewart, Lara Stewart

### Biosecurity Disinfectant Efficacy

**Challenge:** Health

**Category:** Intermediate

**Region:** 4-H Canada

**City:** Calgary, AB

**School:**

**Abstract:** In today's environment, potentially harmful microorganisms could spread rapidly via human contact and globalized movement. For this reason, biosecurity is crucial to everyone, and its aim is to nationally enhance the protection against these spreading pathogens. Our research into chemical compounds and microbiology inspired us to conduct an experiment that investigated the efficacy of homemade cleaning solutions compared to their commercial counterparts.

#### Biographies

Liesl - We are 14 year old twins and live in Calgary, AB. We enjoy competitive barrel racing, play club volleyball, and are members of Springbank Rawhides 4-H Club with equine and life-skills. Our love of music has led us to the honour of going to provincials for classical piano and voice. Homeschooling has helped to develop our enthusiasm for science and has nurtured our love of learning. We care about human and animal health and welfare, which led to our interest in biosecurity. Our research on chemical mechanisms propelled us to conduct an experiment that would investigate the efficacy of our homemade cleaning agents compared with commercial clean...

Lara - We are 14 year old twins and live in Calgary, AB. We enjoy competitive barrel racing, play club volleyball, and are members of Springbank Rawhides 4-H Club with equine and life-skills. Our love of music has led us to the honour of going to provincials for classical piano and voice. Homeschooling has helped to develop our enthusiasm for science and has nurtured our love of learning. We care about human and animal health and welfare, which led to our interest in biosecurity. Our research on chemical mechanisms propelled us to conduct an experiment that would investigate the efficacy of our homemade cleaning agents compared with commercial clean...

#### Awards

#### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000