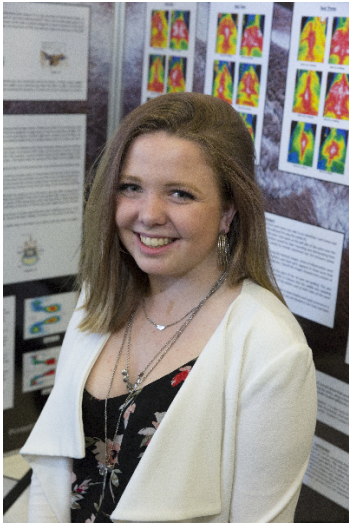


## CWSF 2018 - Ottawa, Ontario



### Kyra Taylor

#### A Novel Approach for Preventing and Monitoring Back Complications in Equines

**Challenge:** Discovery

**Category:** Senior

**Region:** Northern British Columbia

**City:** Montney, BC

**School:** North Peace Secondary

**Abstract:** My sister's horse sustained permanent muscle damage caused by an ill-fitting saddle. Realizing that there is very little technology available to the equestrian community to help prevent this, I am studying equine anatomy, the use of infrared systems, and pressure sensor systems and after gathering the data with a thermal imaging device, I hope to put this knowledge into a prototype pressure saddle pad.

#### Biography

I am a grade eleven student attending North Peace Secondary School in Fort St. John, British Columbia. Being a 4-H member for eight years has made agriculture and farm life is apart of who I am. As an owner of twelve horses and two mini mules, I am always looking for new ways to prevent potential damage caused by my tack and will not interfere with the horses' natural moment. Now that I have the information provided by this years study I plan to continue on to designing a prototype that can be used and tested by a rider. I have been competing in science fair since grade four and while almost every year my topic is different there is one thing that always stays the same, I am always passionate about what I am studying. You can have the most advanced project out there but if you are not excited and passionate about what you are doing I believe that you are missing out on so much of the experience of what science fair has to offer.

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