

## CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)       Project Number         Annika V. McBride       J221222         Project Title       Back Busters         Back Busters       Dijectives/Goals         The objective of my project was to find out which backpack effected your posture the most. My hypothesis is that the 6 pocket backpack will negatively effect your posture the most because it has a lot of pockets and will pull on the subjects back and make them lean foward.         Methods/Materials       I used a ruler, a wood pole with a base, a timer, a pencil, a notebook, 3 backpacks, 3 subjects, backpack contents and a scale. First I measured the backpack and backpack contents to equal 5,10 or 15 pounds. I told one of my subjects to walk around and set my timer for five minutes. When the timer was up I lined my subject up against the wood pole and measured with my ruler how far they were leaning over and how far they were leaning to the side. I wrote what I measured in my notebook and repeated the steps for the other backpacks, subjects and pound increments.         Results       The 6 pocket backpack negatively effected the posture the most. I think that it effected the posture the most because it had a lot of pockets and so it pulled down on the subjects back and made them have to lean over.         Conclusions/Discussion       My hypothesis was correct. This project could help people have more knowledge about which backpack would be better to buy and would not hurt your back.
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Summary Statement
My project explains which backpack is the worst for your back.
John Dessived
Help Received My sisters and neighbor helped me by being my subjects.