

Definition of the "Application" section of the Science Fair Board

1. The "application" of a project is another way of saying "How might the results of this project be used?"
2. How the results/data could be used in the real world (or by someone who didn't do the experiment).
3. What professions might be interested in your results?

What does the Science Fair packet say about the application?

1. Explain how the project would relate to three real world issues/projects/companies.
2. State who would use this information and explain why they would use it.
3. State what type of science you used.

What does the Science Fair rubric say about the application?

1 point for stating a real world relation (x3)

1 point for explaining each real world relation (x3)

1 point for stating who would use this information and why (x3)

1 point for stating what type(s) of science were used.

Total: 10 points

Problem being investigated:

“Which brand of backpack is capable of carrying the heaviest load?”

Example 1

The results of this science fair experiment could be used to make people think about hiking. People who like the outdoors would like this too. Construction workers also spend a lot of time outside and might want to buy good equipment.

People who spend a lot of time outside need to carry their stuff and need to have good stuff to carry things in. If you hike you will need a backpack that is strong.

This is outdoor science.

Application	Example 1
State real world relation	/3
Explain each relation	/3
Explain who would use this and why	/3
What type of science?	/1
Total	/10

Example 2

The results of this investigation provide helpful information for a variety of workers that need to easily carry weight on their backs, for those who work or play in extreme environments, and for those that need a hands free method of transporting materials or supplies.

In the real world many jobs require the ability to easily carry weight while simultaneously having free hands. One such example is those that work for the National Park Service. Often times park rangers will need to work on difficult trails for days at a time, requiring transport of tools and provisions.

Backpacking has increased in popularity and hikers need to be able to carry tents, water purification methods, and food for weeks even months at a time. In order to climb treacherous trails hikers often need to use hiking poles and therefore carry all supplies in a backpack.

Not all backpack users are found in the wilderness, another category of people that will benefit from knowing which backpack can carry the most weight is bike couriers. Bike couriers carry important business papers, contracts, and packages while using two hands to navigate busy city street traffic.

The type of science used in this investigation was consumer science. This knowledge will help people make informed decisions before spending money on an expensive purchase.

Application	Example 2
State real world relation	/3
Explain each relation	/3
Explain who would use this and why	/3
What type of science?	/1
Total	/10

