

Alex Calzada
What Clothing Insulates the Best?

The purpose of this experiment was to see what kind of clothing type acts as a better insulator. The hypothesis of the experiment was that polyester was going to insulate the best because of how close the fibers are. The clothing/fibers that were to be tested in this experiment was wool, cotton, denim, and polyester.

Each clothing had to be tested by taking the temperature outside, then taking the temperature outside with the clothing on (with the thermometer inside the clothing), this was repeated three times with each type of clothing on. The range was found by subtracting the temperature outside, and the temperature outside with the clothes on. An average was then taken for each clothing type.

The results of the experiment did not support the hypothesis. The hypothesis was that polyester would insulate better, but wool actually insulated the best. The average range temperature with polyester was 14.7°F. Cotton had an average range of 16.7°F and denim had an average range of 17.3°F. Wool was the best insulator, with an average of 23°F.

When going out in the cold, make sure to dress with warm clothes, in this case wool was the warmest. Dressing with multiple layers is also a very good way to insulate yourself, because it is hard for heat to escape, and for cold to get in.