



Mythbusters Science

Season 1, Episode 1

*"Ice Bullet, Exploding Toilet, **Who Gets Wetter**"*

The Myth: If caught in a rainstorm, you will stay drier if by running for shelter, instead of walking.

Experimental Setup: The Mythbusters set up a controlled experiment to compare the amount of rainwater absorbed by walking versus running a set distance.

1. The question to be answered by this segment of Mythbusters is "Do you get wetter by walking or running in the rain"? Given this question, what hypothesis do you have (If...then...because)?
2. Explain why a hypothesis is not just a guess.
3. The Mythbusters have two options: conduct the experiment indoors in controlled conditions, or outdoors in nature. What are the pros and cons of each?
4. What is the **independent variable** to be tested in this experiment?
5. What is the **dependent variable** to be measured in this experiment?
6. The goal of a controlled experiment is to only alter the variable that is to be tested, leaving all others constant and controlled. What **controlled variables** do the Mythbusters account for in their experimental design?
List five.
