

# COMPARING WOODEN BATS TO ALUMINUM BATS



## Questions

Does a baseball go further when it is hit with an aluminum bat or wooden bat?

## Hypothesis

We hypothesize that if a baseball is hit with a wooden bat, it will go further than if it is hit with an aluminum bat.

If found we hypothesize that the data shows aluminum bats hit further than wooden bats and would not be a hypothesis.

## Purpose

The purpose of this experiment is to determine if a baseball travels further when hit with a wooden bat or an aluminum bat.

The overall purpose is to see what difference the bat material makes on the distance the baseball travels.

## Procedure

1. The first step was to get a baseball bat and a baseball. We then went to the field and hit the ball with the wooden bat and the aluminum bat. We then measured the distance the ball traveled and recorded it. We then repeated the process with the other bat and recorded the distance. We then compared the two distances and saw that the aluminum bat hit the ball further than the wooden bat.

## Conclusion

We found that the aluminum bat hit the ball further than the wooden bat. We also found that the aluminum bat hit the ball faster than the wooden bat. We then compared the two distances and saw that the aluminum bat hit the ball further than the wooden bat.



# Wood Or Aluminum Bat Science Projects

**Bobby Mercer**



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results of the collision between baseball and bat using basic mathematics such as equations for the speed of the ball after the collision bat speed after the collision and bat rotation after the collision Accessible to high school and undergraduate students as well as non technical aficionados of the science of baseball Dr Bahill s book is the perfect tool for teaching how to solve some of baseball s basic science problems Using only simple Newtonian principles and the conservation laws Dr Bahill explains how to model bat ball collisions Also he derives equations governing the flight of the ball and proceeds to show what factors affect air density and how this density affects the ball s flight And as a unique addition to his fine book he provides advice for selecting the optimal bat a surprising bonus Dave Baldwin PhD Major League pitcher 1966 1973 lifetime Major League ERA 3 08 If I were the General Manager of a baseball team I would tell my people to write a ten page paper describing what this book contains that could improve our performance I think the book provides the foundation for change Bruce Gissing Executive VP Operations retired Boeing Commercial Airplanes I had a chance to read your research and I fully agree with your findings Baseball Legend Ted Williams in a 1984 letter to the author **More Blue Ribbon Science Fair**

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