

Science of
baseball



Which will send a
ball out of the park?

- a) a big bat
- b) a fast bat



**Math+Engineering
Science+You**



nhptv.org/mesy

**Speed
or size?**

Science of the
**home
run**

What makes the biggest difference in how far a ball travels when it's hit — speed of the swing or the size of the bat?

Doubling the weight of a 20-ounce wood bat can raise batted ball speed (BBS) by 17%, but doubling the swing speed of a 30-ounce bat can raise BBS 35.1%.

If you are hitting a 95 MPH fastball, every 1 MPH increase in bat speed can send the ball out 8 more feet!

**Learn more at
nhptv.org/mesy**

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BASEBALL

THE TENTH INNING



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