

Who Really Broke the Turkey Wishbone?

Each Thanksgiving, there is a contest for who can break the turkey wishbone. Traditions vary as to whether the short side is the winner or the loser. But does one person really exert a stronger force over another?

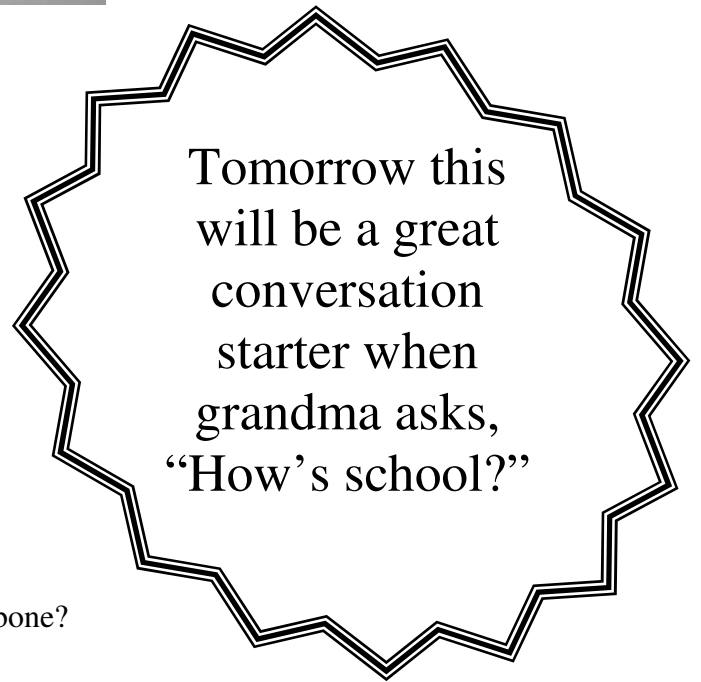
You will use two Force Sensors to record the forces required to break a turkey wishbone.



Start data collection and begin pulling on the wishbone. Continue pulling until the wishbone breaks.

After data collection is complete, the graph of force vs. time will be displayed. Examine the graph.

1. Sketch the graph below.



2. What can you conclude about the two forces on the wishbone?

3. How much force was needed to break the wishbone?

4. Did either you or your partner pull harder than the other?

5. Was the breaking of the wishbone due to one person exerting a greater force?