

Dropped Ball Investigation

You will work with your partner to complete a short investigation about the forces involved in dropping a ball. Experiment several times with dropping the ball, think about what forces are acting before you drop the ball and after it is dropped. Each person should take a turn—see if you can “narrate” the forces before you start to analyze them.

On SN page 31 set up a T-chart that looks like this:

	Before Dropping the Ball	After Dropping the Ball (before it hits floor)
Force Interaction Table		
Model of Forces (show all in pairs, both contact and distance)		
Free Body Diagram (show only forces acting on the ball)		

Challenge: If energy is neither created nor destroyed explain why the ball bounces less high with each bounce and eventually does not bounce at all.

When you are done get a sticker from me and start the HW on page 30.