

- Title - Newton's Laws of Motion
- Purpose - How can Newton's 1st law of motion be demonstrated?
- Hypothesis - Newton's 1st law of motion can be demonstrated in a variety of games testing both skill and chance.
- Materials - see each game
- Procedure -
1. Newton's 1st law of motion is the law of Inertia. You are going to test your skill using Newton's First Law in 6 different game situations.
 2. Each person gets trials or chances at each game. (you may use 3 warm up tries if necessary)
 3. Draw a neat data table or score sheet for each game.

Game 1

Get a plastic battery cup, a card, 1 red or blue washer and a wooden striker. Place card on the center of the cup and put the washer on the card. Snap or strike the card with the washer sitting on it. Try to get washer to drop into the cup. (10 trials)

Game 2

Same as game 1 except use a card covered with sandpaper. (10 trials)

Game 3

Slap shot. Stack up 10 red or blue washers on table. Use wooden goal placed 70 cm from stack. Strike bottom washer out from under stack without letting other washers above it fall. (10 shots)

Game 4

Penny is placed on card that is centered over a large test tube in a test tube holder. Try to get the coin in the tube. (10 trials)

Game 5

Coin again on card with a small cork sitting on top of coin. Both must drop into test tube. (10 trials)

Game 6

Triple play. Set up rack with 3 test tubes, card, coins and corks. All coins and corks must fall into tubes. Leave space between tubes to strike card edge with stick. (only 5 trials)

Data

INERTIA GAMES

Trials	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Total made						
%						

Key

Check – made it

X - did not make it

Total % of all games

Total made	Total Possible	$\% = \text{Total made} / \text{Total possible} \times 100$
	55	