

Experiment 9.4 - Newton's 1st Law of Inertia

① Hypothesis: I think the coins will fall in the cup if the index card is taken away quickly.

Inertia - an objects resistance to change its state of motion

Supplies:

- Glass
- Index card
- a few quarters

Observations: When the index card was pulled away quickly, the coins fell into the glass. This also worked with multiple coins in the index card.

In conclusion: The results were the following because there was not enough friction between the coin and the card and gravity was stronger than the other force.