Name	
Purpose: To demonstrate the First Law of Motion	
Background Information: A force is a push or a pull. When ye the floor or ground. The force of gravity pulls objects toward When objects are not moving they are said to be at rest. A the parking lot or a chair on the floor are at rest if they are repeople have understood these phenomena for a long time by understand the mathematics behind them and so he development in the late 1600's. We are studying the first law. Parsays:	rd the center of the earth. book on the table, cars in not moving. but Isaac Newton was able to sped the three basic laws of
Objects at rest stay at rest unless pushed or pulled by a moving stay moving unless stopped by	-
Part 1 - Materials: 2-liter soda bottle filled with water, piece of wax paper	\$ 0,0 kg
Procedure: 1. Examine the picture to the right. 2. Predict what you think will happen.	
3. Set your bottle on the wax paper. Quickly pull the paper from under the bottle using a steady, straight motion.	
Questions to Ponder: 1. What force acted on the paper?	
2. What force acted on the bottle?	
3. In this investigation what was at rest?	
4. In this investigation what was in motion?	

Part 2 -

Materials: Beaker, penny and index card

Procedure:

- 1. Lay an index card on the top of the beaker.
- 2. Place a penny on the card, centered over the beaker.
- 3. With a flick of your finger, give the card a quick thump.

Questions to Ponder:

1. What force acted on the card?	

- 2. What force acted on the penny? _____
- 3. In this investigation what was at rest?
- 4. In this investigation what was in motion?

Activity 3 -

Materials: 3 books, penny, toy car, ramp

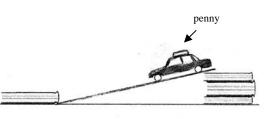
Procedure:

- 1. Place two books on top of each other and place the ramp on the books.
- 2. Place the other book at the end of the ramp.
- 3. Place the penny on top of the car and place it at the top of the ramp.
- 4. Let the car go down the ramp and observe the car and the penny.

Questions to Ponder:

- 1. What force acted on the car?
- 2. What force kept the penny on top of the car?
- 3. After the car stopped what happened to the penny?
- 4. Why did the car stop? _____
- 5. Why did the penny keep going after the car stopped?





RERUN (Check your Science Handbook):
Recall –
Explain –
Results –
Uncertainties –
New –