

EGG IN MOTION

PURPOSE: Children will observe an application of Newton's First Law of Motion, which states that an object in motion remains in motion unless acted upon by an outside force.

MATERIALS:

Book Topic: newton's Laws of Motion, seat belts
Several books
Board (ramp)
Rubber bands or tape
Two hard-boiled eggs or ping pong balls
Toy car

**PROCEDURE:**

1. Construct a ramp using the books and the board. Place the ramp against a wall.
2. Use a rubber band to tightly secure an egg into the seat of the toy car.
3. Place the car at the top of the ramp. Predict what will happen when you release the car.
4. Release the car and allow it to go down the ramp and crash into the wall. What happened?
Was your prediction correct?
5. Remove the rubber band, and simply place the egg in the toy car.
6. Place the car at the top of the ramp. Predict what will happen when you release the car.
7. Release the car. What happened? Was your prediction correct?

HOW IT WORKS: The first time you did the experiment, the egg remained attached to the car, and the wall stopped the car. The second time you did the experiment, the egg was not attached to the car. The wall stopped the car, but not the egg. It kept on moving. Think about Newton's First Law of Motion which states that once an object is in motion, it will continue in motion unless acted upon by an outside force.

WRITING PROMPT

You have just learned about Newton's First Law of Motion.

Think about what happened to the egg when it was not attached to toy car.

Now write a paper supporting seat belt use.



Parent Signature: _____

**FAMILY SCIENCE PROJECT**

Date: _____

Name: _____

Teacher: _____

Hypothesis (What do you think will happen?)

Date/Observation:

Conclusion: (What you learned or discovered):

*(*You may continue your observation on another sheet. You may want to create a graph to record your data.)*

For the reading portion of Family Science, you may choose to read a book or an article, OR you may use the Internet in order to find some background information concerning this Family Science Project. If you read a book or an article, please include the complete title and author. If instead you looked up the information on the Internet, please include the complete website.

We read the following book, **OR** researched the information on the Internet:

Book Title: _____ Author: _____

Internet-Complete Website _____

Writing Prompt (minimum 5 sentences)
