




Newton's First Law: Inertia POE

Scissors on
a book.

Situation	Predict	Observe	Explain
Coin on a card 	scissors will explode.	fall straight down (don't explode ;)).	not enough friction to move the scissors - they want to stay where they are
Object on a skateboard 	ball becomes a black hole.	ball rolls forward.	ball's inertia means it wants to keep moving forward.
Pull slowly on thread 	thread catches fire.	upper string broke	tension was too high for the string.
Pull quickly on thread 	thread disappears.	upper string broke.	,,