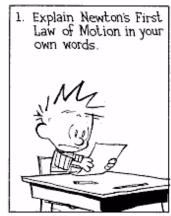
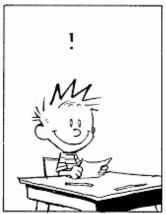
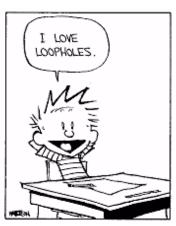
Newton's 1st Law of Motion SPH4C

The	force is the	of all	forces acting on a	an object.	
	acting on the weig		his head by exerti [down]. Draw a F		
If there is no net	force acting on a	n object, the	object will		
or will					
(Conversely, if a acting up	•	or is moving	at constant veloc	ity, there is _	net force
This is the princ	iple of		, first articulated b	ру	·
Inertia is the pro	perty of matter th	at causes it t	0		to its motion.
The greater the	(of an object,	the greater its ine	rtia.	
	ject is being push on acting on the o		constant velocity t	by a force of	5 N [left]. What is









More Practice

 Which object has the most inerti 	a?
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A. a feather

B. a textbook

C. Ms. Rosebery

D. an elephant

2. Fuzzy dice are hanging from the rear-view mirror of a car that is travelling forward at constant speed. The dice are:

A. angled toward the back of the car

B. angled toward the front of the car

C. hanging straight down

D. It cannot be determined.

3. Fuzzy dice are hanging from the rear-view mirror of a car that is travelling forward and speeding up. The dice are:

A. angled toward the back of the car

B. angled toward the front of the car

C. hanging straight down

D. It cannot be determined.

4. Fuzzy dice are hanging from the rear-view mirror of a car that is travelling forward and slowing down. The dice are:

A. angled toward the back of the car

B. angled toward the front of the car

C. hanging straight down

D. It cannot be determined.

5. A block of weight 4.0 N is suspended from the ceiling by a piece of string. What is the magnitude of the tension in the string?

A. 4.0 N

B. less than 4.0 N

C. greater than 4.0 N

D. Zero

6. A block of weight 4.0 N is being lifted at constant velocity by a piece of string. What is the magnitude of the tension in the string?

A. 4.0 N

B. less than 4.0 N

C. greater than 4.0 N

D. Zero