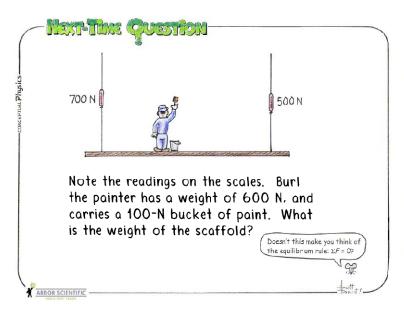
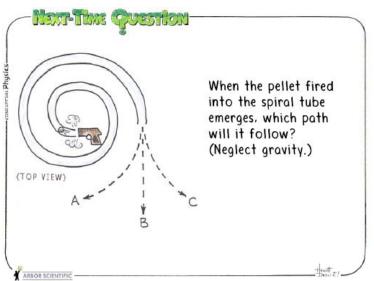
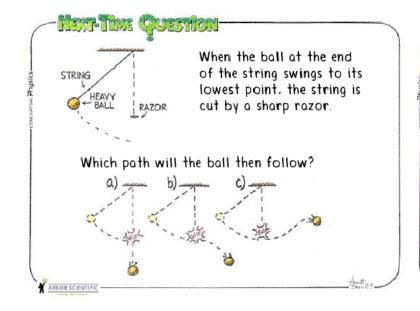
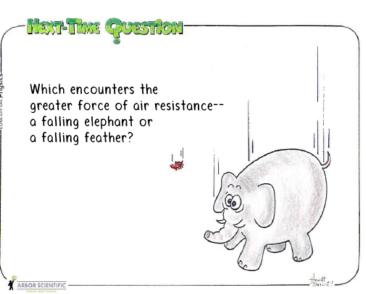
1. 2.





3.





4.

## Neiter Cuesten

Two smooth balls of exactly the same size, one made of wood and the other of iron, are dropped from a high building to the ground below.

The ball to encounter the greater force of resistance on the way down is the

- a) wooden ball.
- b) iron ball.
- c) ... both the same.



6.

As she falls faster and faster through the <u>air</u>, her acceleration

- a) increases.
- b) decreases.
- c) remains the same.



★ ARBOR SCIENTIFIC
 ★ ARBOR SCIENTIFIC
 ★ ARBOR SCIENTIFIC

Mark This Ougarion

7.

Toss a ball straight upward and the time it spends going up equals the time it takes to return to its starting level

- a) only when air resistance is absent or negligible.
- b) whether or not air resistance is present.



The ball encounters just as much air when ascending as when descending



heartime question

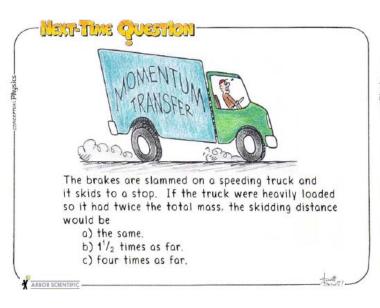
Little Larry slides down an icy grass slope in a cardboard box and skids to a stop across the flat ground. If Larry's friend were also in the box, giving it twice the mass and starting from the same height, the skidding distance would be

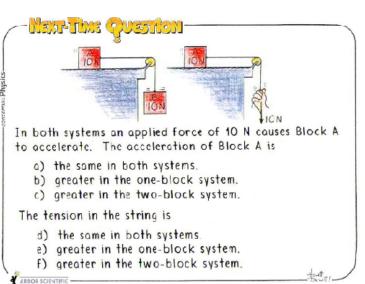


8.

- a) less.
- b) the same.
- c) twice as far.
- d) four times as far.
- e) none of the above.

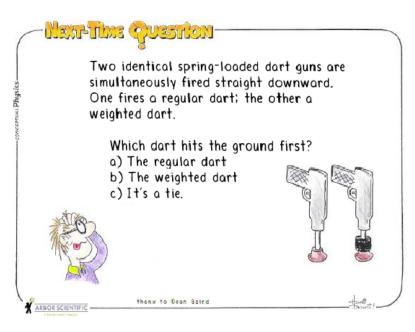
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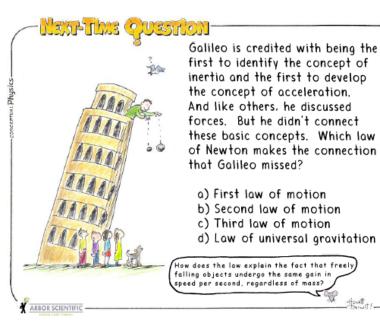


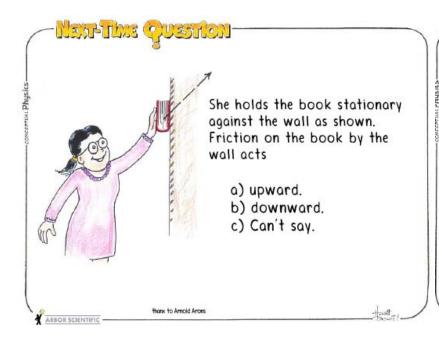


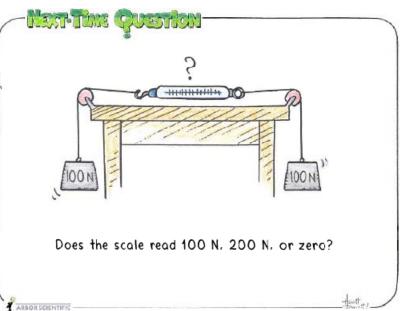
12.

11.

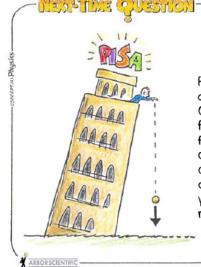




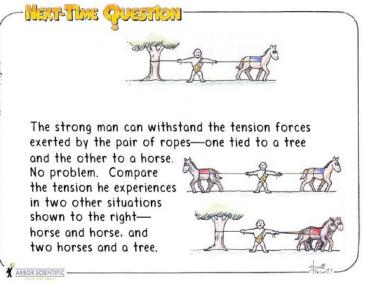


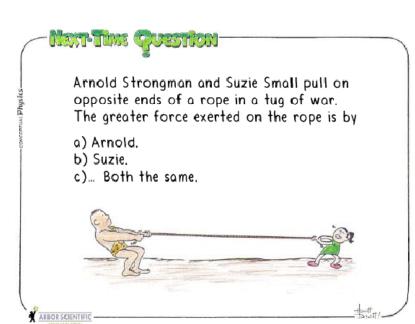


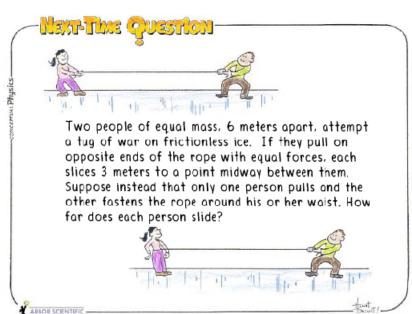
15.



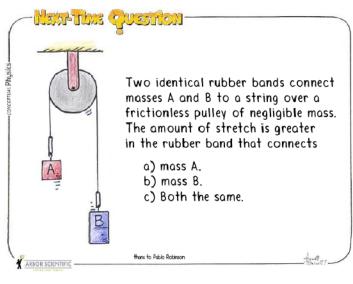
For every force there exists an equal and opposite force. Consider action and reaction forces in the case of a rock falling under the influence of gravity. If action is considered to be the force of gravity on the rock, can you clearly identify the reaction force?







19. 20.



IF A MACK TRUCK AND A
VOLKSWAGEN HAVE A HEAD-ON
COLLISION, WHICH VEHICLE
WILL EXPERIENCE THE GREATER
IMPACT FORCE?

A) THE MACK TRUCK
b) THE VOLKSWAGEN
c) BOTH THE SAME
d) ... IT DEPENDS ON OTHER FACTORS