Chapter 6- Force is an INTERACTION BETWEEN TWO OBJECTS!

Newton's Third Law

For every force or action, there is an equal but opposite force or reaction.

The action and reaction act on different objects.

Action = Reaction

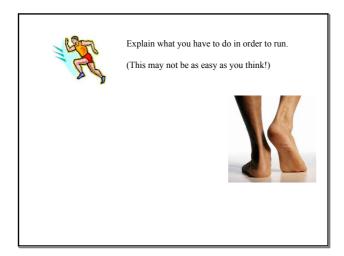
I stand on the ground. The force which I exert on the ground is equal and opposite in direction to the force which the ground exerts on me

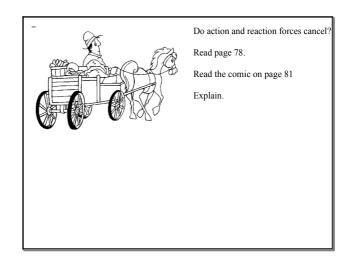


Many people would say that the force on the cannon ball is greater than the force on the cannon itself. What observation would make them say that?

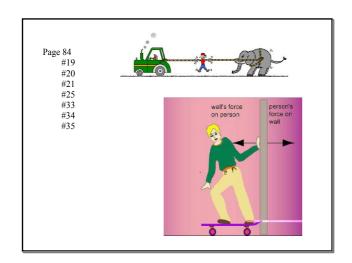
How would you explain that they are wrong?

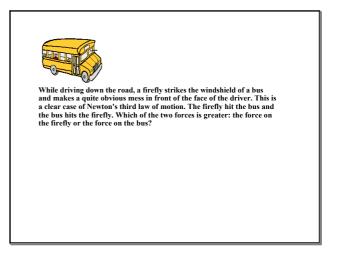
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P84 # 19 Your weight is the result of the gravitational force of Earth on your body. What is the corresponding reaction force?

20 Consider the two forces acting on a person who stands still, namely the downward pull of gravity and the upward support of the floor. Are these forces equal and opposite? Do they compromise an action-reaction pair?

21 If you walk on a log that is floating in the water, the log moves backward. Why?

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