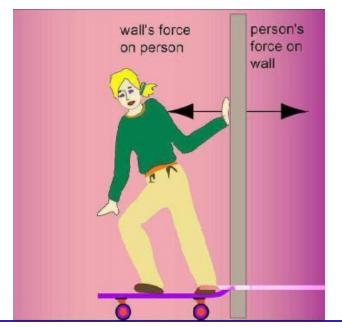
Newton's 3rd Law

Newton's Third Law

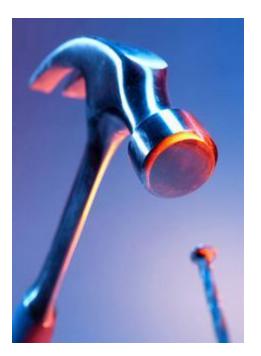
"For every action there is an EQUAL and OPPOSITE reaction.

- This law focuses on action/reaction pairs (forces)
- They NEVER cancel out because the forces are acting on different objects. (Two different FBD)



All you do is SWITCH the wording! •PERSON on WALL •WALL on PERSON

N.T.L Examples



Action: HAMMER HITS NAIL Reaction: NAIL HITS HAMMER



Action: Earth pulls on YOU Reaction: YOU pull on the earth

But wait there's more.

- A hammer hits a nail and the forces they exert on each other are equal.
 - Why then does the nail have a larger acceleration?
 - If you are pulling on the Earth, why does it not accelerate towards you?
 - A book rests on a level table. The table exerts a normal force on the book. What is the reaction force?