## Unit 4: Newton's Laws Newton's 3<sup>rd</sup> Law

Newton's 3<sup>rd</sup> Law: For every action force there is an equal (in magnitude) and opposite (in direction) reaction force. Any interaction involves two forces that we call... action-reaction force pairs

1) You hit a baseball with a bat. bat hits ball - ball hits bat 2) A sprinter starts running. runner pushes ground ground pushes runner 3) A fish swims through water. fish pushes water - water pushes fich

Imagine a bug hitting the windshield of a semi trailer.

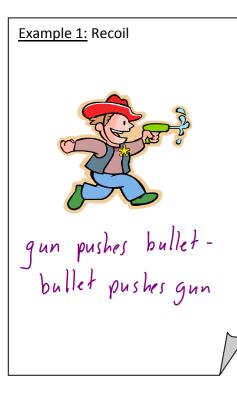
What force pair occurs? truck hits bug - bug hits truch

Which force is bigger?

NEITHER!

Which object has a greater acceleration?

The buy since Mbuy <<< m truck



## Example 2: Bricks



man híts brick brich híts man



gasses propel

rocket