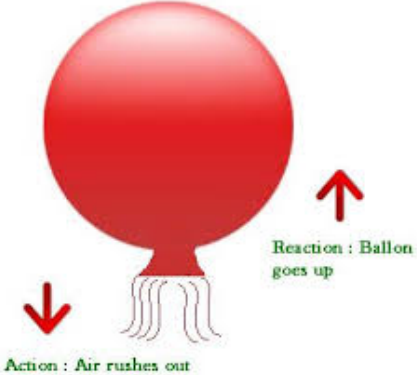

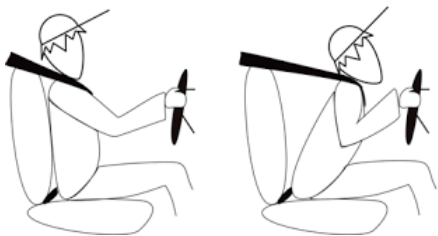
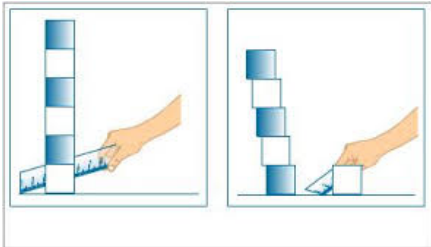


# Newton's 3 Laws Activity

Match the situation to the appropriate Newton's Law. Explain how you identified which Law it was. If there is a calculation to be done then complete this in the box provided.

Situation	Newton's Law & explanation
 <p><a href="http://physics.tutorvista.com/">http://physics.tutorvista.com/</a></p>	
<p>A fish swimming in water uses its fins to push the water backwards and hence propel itself forward.</p>	
<p>The force required to produce the acceleration of 5m/s in a 40kg object is 200N</p>	
 <p><a href="http://www.teachengineering.org">www.teachengineering.org</a></p>	
 <p><a href="http://everythingmaths.co.za/">http://everythingmaths.co.za/</a></p>	



<http://physics.tutorvista.com/>

If you are riding a skateboard and you suddenly hit a branch lying across the path, the skateboard will stop but you will keep moving forward!

If you use the same amount of force to push a car and a truck then the car will move with more acceleration than the truck.

Sliding a hockey puck on ice will eventually stop due to friction or if it is hit by a hockey stick.

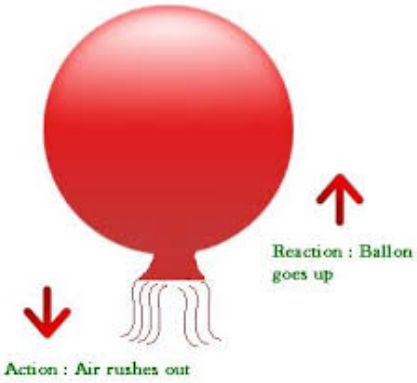
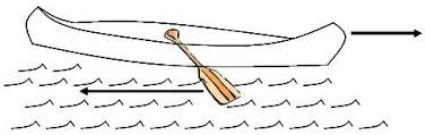
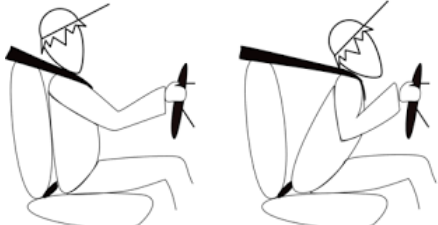
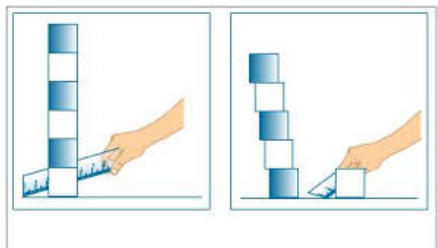
It is easier to push an empty shopping trolley than a full one because more force is required to move more mass.

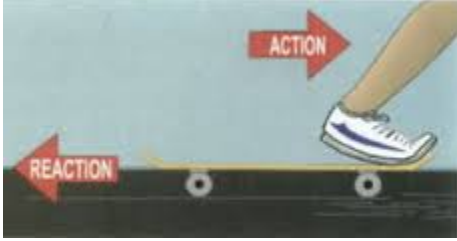


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# Newton's 3 Laws Activity - ANSWERS

Match the situation to the appropriate Newton's Law. Explain how you identified which Law it was. If there is a calculation to be done then complete this in the box provided.

Situation	Newton's Law & explanation
 <p><a href="http://physics.tutorvista.com/">http://physics.tutorvista.com/</a></p>	3rd
A fish swimming in water uses its fins to push the water backwards and hence propel itself forward.	3rd
The force required to produce the acceleration of 5m/s in a 40kg object is 200N	2nd
 <p><a href="http://www.teachengineering.org">www.teachengineering.org</a></p>	3rd
 <p><a href="http://everythingmaths.co.za/">http://everythingmaths.co.za/</a></p>	1st
 <p><a href="http://physics.tutorvista.com/">http://physics.tutorvista.com/</a></p>	1st
If you are riding a skateboard and you suddenly hit a branch lying across the path, the skateboard will stop but you will keep moving forward!	1st

If you use the same amount of force to push a car and a truck then the car will move with more acceleration than the truck.	2nd
Sliding a hockey puck on ice will eventually stop due to friction or if it is hit by a hockey stick.	1st
It is easier to push an empty shopping trolley than a full one because more force is required to move more mass.	2nd
 <p>thescienceclassroom.wikispaces.com</p>	3rd