

Tic-Tac-Toe Board – Motion and Forces

<p>Describe potential and kinetic energy. Give an example of each using a Winter Olympic sport.</p> <p>www.nsf.gov/news/special_reports/olympics National Science Foundation has over 12 video shorts on the science involved in various Olympic sports.</p>	<p>What 2 forces affect the level of an object's acceleration? Explain.</p>	<p>Write a creative journal entry to describe what the world would be like without friction.</p>
<p>What are Newton's 3 Laws of Motion?</p>	<p>What is force? How is it measured?</p>	<p>Write out the following vocabulary terms: inertia, mass, force, acceleration and friction. Define them two ways – as the book defines them & in your own words.</p>
<p>Newton's 1st Law You are driving down the road at 50 mph. What forces are present?</p> <p>You suddenly slam on the breaks to avoid a deer. Explain what happens to your body and why. Why do we wear seatbelts?</p>	<p>Why is it harder to throw a bowling ball than a baseball? Explain your answer using Newton's 2nd Law of Motion</p>	<p>Newton's 3rd Law How does Newton's 3rd law help a swimmer swim through water?</p>