

# FORCES AND MOTION

## READING COMPREHENSION WORKSHEET

<p>Fill in the blank with the correct word or phrase.</p> <ol style="list-style-type: none"> <li>The equation that shows force, mass, and acceleration is _____.</li> <li>When a net force acts on an object, the object's motion _____.</li> <li>The force that opposes motion between two surfaces in contact is _____.</li> <li>The resistance of an object to change in motion is called _____.</li> <li>A force that causes an object to change its velocity is called _____.</li> </ol> <p>Draw lines to match each term on the left with the correct definition on the right.</p> <ol style="list-style-type: none"> <li>Force</li> <li>Mass</li> <li>Acceleration</li> <li>Velocity</li> <li>Newton</li> </ol> <p>Write complete answers to each question.</p> <ol style="list-style-type: none"> <li>What is a net force?</li> </ol> <p>_____</p> <ol style="list-style-type: none"> <li>How does increasing an object's mass affect its acceleration?</li> </ol> <p>_____</p> <ol style="list-style-type: none"> <li>Describe an example of an object with different forces acting on it.</li> </ol> <p>_____</p> <ol style="list-style-type: none"> <li>Why does increasing the force applied to an object increase its acceleration?</li> </ol> <p>_____</p> <ol style="list-style-type: none"> <li>How does a net force cause an object to change its motion?</li> </ol> <p>_____</p> <p>Complete an essay that thoroughly addresses the following question.</p> <ol style="list-style-type: none"> <li>Explain how forces and motion determine the trajectory of an object.</li> </ol>	<p>Mark each statement as True or False.</p> <ol style="list-style-type: none"> <li>Gravitational force is a type of contact force.             <ol style="list-style-type: none"> <li>True</li> <li>False</li> </ol> </li> <li>Friction is a contact force.             <ol style="list-style-type: none"> <li>True</li> <li>False</li> </ol> </li> <li>How often does a net force on an object accelerate it?             <ol style="list-style-type: none"> <li>Never</li> <li>Always</li> <li>Sometimes</li> <li>Only when the net force is large.</li> </ol> </li> <li>Newton's second law states that acceleration is directly proportional to net force.             <ol style="list-style-type: none"> <li>True</li> <li>False</li> </ol> </li> <li>Friction is a force that opposes motion between two surfaces in contact.             <ol style="list-style-type: none"> <li>True</li> <li>False</li> </ol> </li> <li>Applying more force to an object will cause it to accelerate more.             <ol style="list-style-type: none"> <li>True</li> <li>False</li> </ol> </li> <li>An object's mass does not change when it is accelerated.             <ol style="list-style-type: none"> <li>True</li> <li>False</li> </ol> </li> <li>Newton's second law states that acceleration is directly proportional to net force.             <ol style="list-style-type: none"> <li>True</li> <li>False</li> </ol> </li> <li>Gravity is a force that acts on all objects with mass.             <ol style="list-style-type: none"> <li>True</li> <li>False</li> </ol> </li> <li>Gravity is a force that acts on all objects with mass.             <ol style="list-style-type: none"> <li>True</li> <li>False</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>What happens when the net force on an object is zero?             <ol style="list-style-type: none"> <li>The object changes direction.</li> <li>The object stays still.</li> <li>The object accelerates.</li> <li>The object continues moving in the same direction at the same speed.</li> </ol> </li> <li>Which of the following objects is not accelerating?             <ol style="list-style-type: none"> <li>A car accelerating out of a stoplight.</li> <li>A car moving at a constant speed.</li> <li>A car changing direction at a sharp turn.</li> <li>A car slowing down to a stop.</li> </ol> </li> <li>Which force does NOT always affect the acceleration of an object?             <ol style="list-style-type: none"> <li>The normal force.</li> <li>The net force acting on it.</li> <li>The force of friction.</li> <li>The force of air resistance.</li> </ol> </li> <li>Which of the following is NOT a force?             <ol style="list-style-type: none"> <li>Gravity</li> <li>Friction</li> <li>Acceleration</li> <li>Tension</li> </ol> </li> <li>Which of the following is NOT a force? 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When multiple forces act on an object, they combine to determine the net force, which determines whether the object speeds up, slows down, or changes direction. Understanding how forces act together is essential to explaining various observations from a physics world, such as a ball's trajectory or a car's acceleration.</p> <p>Newton's second law of motion states that the acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass. This means that if the net force increases, the acceleration increases proportionally, but if the mass increases, the acceleration decreases. For example, a car's acceleration is affected by its engine's power and its weight.</p> <p>Friction is a force that opposes motion between two surfaces in contact. It acts in the opposite direction of the object's motion, slowing it down. Friction is caused by the roughness of the surfaces and the interlocking of their microscopic particles. Friction is essential for many everyday activities, such as walking, driving, and holding objects. Without friction, objects would slide across surfaces without any resistance, making it impossible to perform most tasks.</p> </div> <p>Answer the questions that follow.</p> <ol style="list-style-type: none"> <li>Which of the following is NOT a force?             <ol style="list-style-type: none"> <li>Gravity</li> <li>Friction</li> <li>Acceleration</li> <li>Tension</li> </ol> </li> <li>Which of the following is NOT a force?             <ol style="list-style-type: none"> <li>Gravity</li> <li>Friction</li> <li>Acceleration</li> <li>Tension</li> </ol> </li> <li>Which of the following is NOT a force?             <ol style="list-style-type: none"> <li>Gravity</li> <li>Friction</li> <li>Acceleration</li> <li>Tension</li> </ol> </li> <li>Which of the following is NOT a force?             <ol style="list-style-type: none"> <li>Gravity</li> <li>Friction</li> <li>Acceleration</li> <li>Tension</li> </ol> </li> </ol> <div style="text-align: right;">  </div>
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evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ... Reader's Notebook Grade 5 (Journeys) Book details ; ISBN-10. 9780544592667 ; ISBN-13. 978-0544592667 ; Edition. 1st ; Publisher. HOUGHTON MIFFLIN HARCOURT ; Publication date. January 1, 2016. Journeys Common Core Reader'S Notebook ... Journeys Common Core Reader's Notebook Consumable Grade 5 ; Grade: 5 ; Material Type: Student Materials ; Format: Softcover, 432 Pages ; ISBN-13/EAN: 9780547860688 ... Common Core Reader's Notebook... by Houghton ... Journeys Common Core Reader's Notebook Grade 5 Workbook. Read more ... #5,429 in Children's Beginner Readers. #13,448 in Unknown. Customer Reviews, 4.6 out of 5 ... Journeys Common Core Reader'S Notebook Teachers ... Journeys Common Core Reader's Notebook Teachers Edition Grade 5 ; Grade: 5 ; Material Type: Teacher Materials, Resource Materials ; Format: Printables(BLM), 216 ... Journeys Reader's Notebook Grade 5 Sep 7, 2020 — This comprehensive ELA program from Houghton Mifflin Harcourt may look familiar to you. It has been successfully used in public schools, ... Grade 5 Practice Book JOURNEYS. Practice Book. Grade 5. HOUGHTON MIFFLIN HARCOURT. School Publishers ... Connect to Reading Look through A Package for Mrs. Jewls. Find words that have ... Common Core Reader's Notebook Consumable... Journeys Common Core Reader's Notebook Grade 5 Workbook. This description may be from another edition of this product. ... Weight:0.60 lbs. Dimensions:0.7" x 8.6" ... Common Core Student Edition Grade 5 2014 Buy a cheap copy of Houghton Mifflin Harcourt Journeys:... book. Journeys Common Core Student Edition Grade 5 2014 Free Shipping on all orders over \$15.