

# 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 object is at rest.</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 is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which force does NOT always affect the acceleration of an object?             <ol style="list-style-type: none"> <li>Frictional force</li> <li>Gravitational force</li> <li>Normal force</li> <li>Applied force</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which of the following is NOT a type of force? 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This means that if the net force on an object is zero, the object will not accelerate. However, if the net force on an object is not zero, the object will accelerate in the direction of the net force. The acceleration of an object is also directly proportional to the net force acting on it. This means that if the net force on an object is doubled, the acceleration will also double.</p> <p>Newton's second law also states that the acceleration of an object is inversely proportional to its mass. This means that if the mass of an object is doubled, the acceleration will be halved. For example, if a 10 kg object is pushed with a force of 10 N, it will accelerate at 1 m/s<sup>2</sup>. If a 20 kg object is pushed with the same force of 10 N, it will accelerate at 0.5 m/s<sup>2</sup>.</p> <p>Newton's second law is a vector equation, which means that the direction of the net force and the direction of the acceleration are the same. For example, if a net force of 10 N is applied to an object to the right, the object will accelerate to the right.</p> </div> <p>Answer the questions that follow.</p> <ol style="list-style-type: none"> <li>What does Newton's second law of motion state?             <ol style="list-style-type: none"> <li>The acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass.</li> <li>The acceleration of an object is directly proportional to the net force acting on it and directly proportional to its mass.</li> <li>The acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass.</li> <li>The acceleration of an object is directly proportional to the net force acting on it and directly proportional to its mass.</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> <li>Which of the following is NOT a type of force?             <ol style="list-style-type: none"> <li>Gravitational force</li> <li>Electromagnetic force</li> <li>Frictional force</li> <li>Centrifugal force</li> </ol> </li> </ol> <div style="text-align: right;">  </div>
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web mar 30 2014 ccnew pixelidylist woo for example if you choose the first edge point  $x_1 y_1$  and you compute  $bwdistgeodesic$   $bw y_1 x_1$  cityblock you will get a distance matrix whose values will be in the range 0 number of connected components 1 at the location  $x_1 y_1$  of your first point the distance matrix value will be 0 those of the next

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web a dfs based algorithm computes the connected components time complexity is  $o(n e)$  where  $n$  and  $e$  are number of nodes and edges respectively  $s c$  graphconncomp  $g$  weak weakvalue indicates whether to find weakly connected components or strongly connected components

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web mar 29 2020 what is connected component labeling visualization of an example code in matlab what is connected component labeling this is a computer vision algorithm to detect and count the number of connected regions also called blobs in a binary image often this is done after a segmentation algorithm

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web may 16 2019 this is a matlab function that utilises the image processing toolbox to convert any image to its edge image using canny algorithm and then label connected components in it the whole labelling algorithm is in a function that you can apply to any image the edge image goes through the labelling algorithm and final image is displayed

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web feb 10 2014 this function is partly based on the two pass algorithm described here en wikipedia org wiki connected component labeling i did not make use of the disjoint data set structure at least that i am aware of to connect the linked labels

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