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forces 7th grade science worksheets and answer key study guides covers the following skills provide evidence that the change in an object s motion depends on the sum of the forces on the object and the mass of the object apply newton s third law to design a solution to a problem involving the motion of two colliding objects ice accelerating down an incline force of friction keeping the block stationary correction to force of friction keeping the block stationary force of friction keeping velocity constant intuition on static and kinetic friction comparisons static and kinetic friction example the law that states that for every action force there is an equal and opposite reaction force is a newton s first law of motion b newton s second law of motion c newton s third law of motion d the law of conservation of momentum there are several situations described below for each situation decide which forces are present and absent identify what features of the situation you used to determine the presence p or absence a of each force then view the answers 1 a block hangs at rest from the ceiling by a piece of rope consider the forces acting on the block create an applied force and see how it makes objects move change friction and see how it affects the motion of objects explore the forces at work when pulling against a cart and pushing a refrigerator crate or person id 03a6c8caa9dd412aad9b2c0859b507d1 section learning objectives by the end of this section you will be able to do the following differentiate between force net force and dynamics draw a free body diagram section key terms defining force and dynamics force is the cause of motion and motion draws our attention define the si unit of force the newton describe force as a vector the study of motion is called kinematics but kinematics only describes the way objects move their velocity and their acceleration dynamics is the study of how forces affect the motion of objects and systems learn about forces and motion with this interactive simulation from phet you can experiment with different objects apply various forces and adjust the friction level see how the motion changes in response to your actions this simulation is suitable for elementary middle and high school students who want to explore the basics of physics phet forces and motion basics l i n k t o sim httpsphetcoloradoeduen simulation forces and motion basics open the simulation an d p re ss t h e a rro w t o st a rt about this unit understanding interactions between force mass acceleration and momentum allows us to predict and how an object will move and comes in handy when we re designing things like airplanes or

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