Newton's Laws Auxilliary Items

For Galileo for a Day Lab

Post-Lab Questions:

A portion of Newton's first law of motion is "... an object in motion will stay in motion at the same speed and in the same direction unless acted upon by *an unbalanced force*." The idea is that **forces, when unbalanced, cause acceleration**. The diagrams below represent force diagrams. The various forces acting on a rightward moving cart are shown. The size of the arrow represents the strength or magnitude of the force.

Diagram A

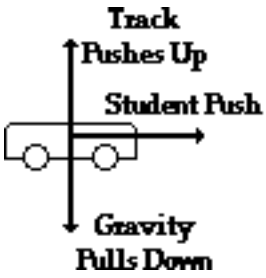


Diagram B

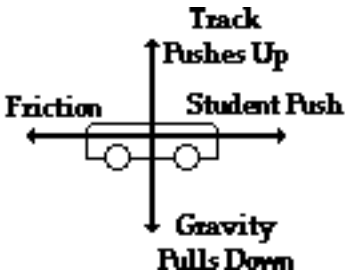


Diagram C

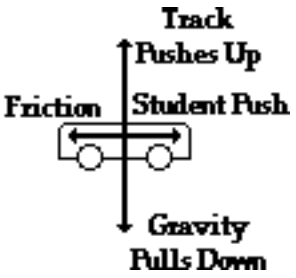


Diagram D

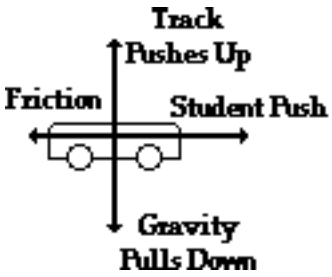


Diagram E

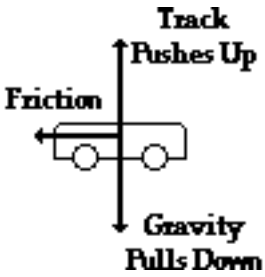


Diagram F

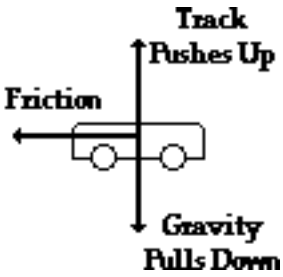


Diagram G

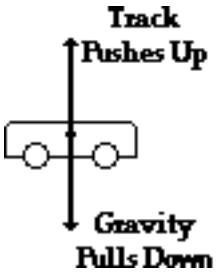


Diagram H

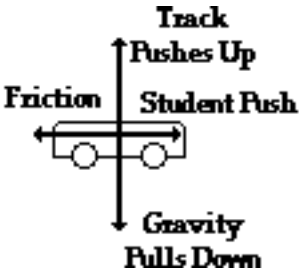
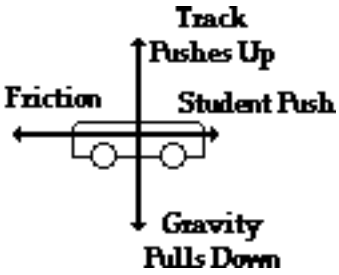


Diagram I



Which force diagram corresponds to the motion of the cart during the ...

... push-phase _____

... the no-push phase (maximum friction) _____

... the no-push phase (medium friction) _____

... the no-push phase (absolutely no friction) _____