

Interpret Net Force and Acceleration: Explore and Explain



Name: _____ Date: _____

Explore the material. Talk through your reasoning with suitable support.

A simplified motion model

For an object of constant mass, net force $F = ma$. Force is measured in newtons, mass in kilograms and acceleration in meters per second squared. Net force, not just one force, determines acceleration.

1. Find net force for mass 2 kg and acceleration 3 m/s².

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2. Find acceleration for net force 12 N and mass 4 kg.
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