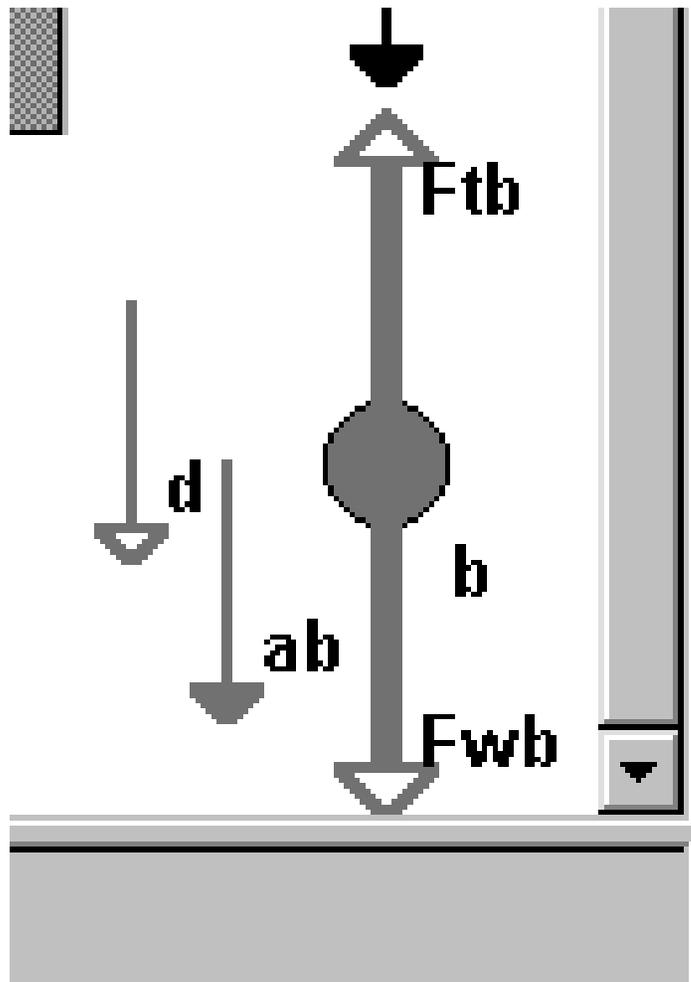


Equation for hanging body



ab and Ftb represent the magnitudes of the acceleration and tension, so the student might reasonably write the equation:

$$mb \cdot g - Ftb = mb \cdot ab$$