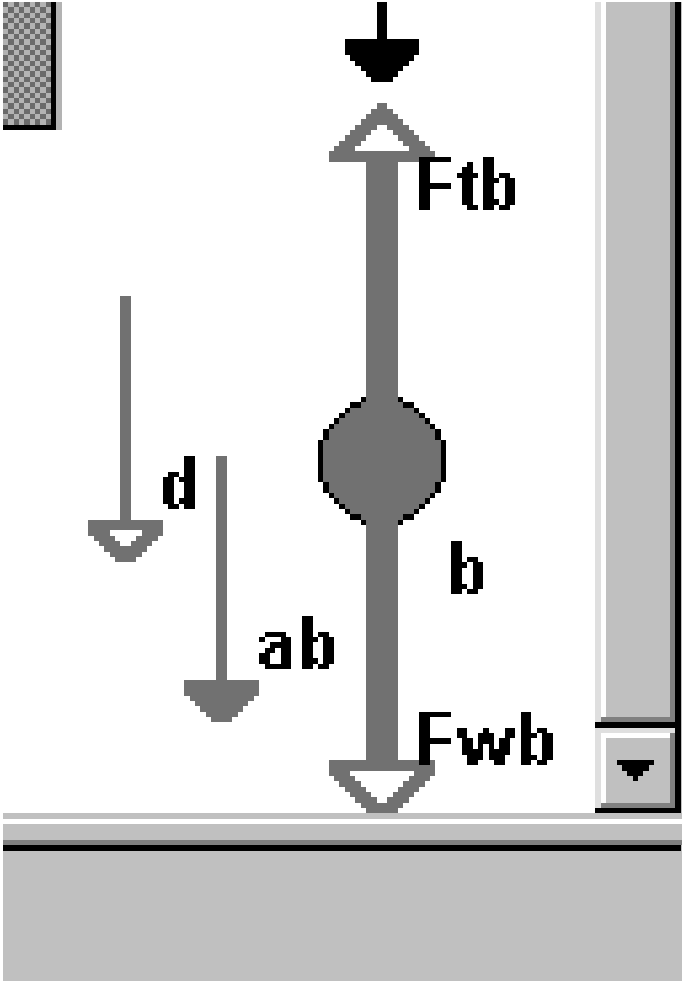


# Equation for hanging body



The diagram shows a hanging body (a dark grey circle labeled 'b') suspended by a string. A downward arrow labeled 'd' indicates the direction of motion. A downward arrow labeled 'ab' indicates the acceleration. A downward arrow labeled 'Fwb' is at the bottom of the string, and an upward arrow labeled 'Ftb' is at the top of the string. The string is attached to a support at the top. A vertical scale is visible on the right side of the diagram, with numbers 1 through 6. A text box on the right contains the equation:  $mb \cdot g - F_{tb} = mb \cdot a_b$ .

1.  $mb \cdot g - F_{tb} = mb \cdot a_b$

2.

3.

4.

5.

6.