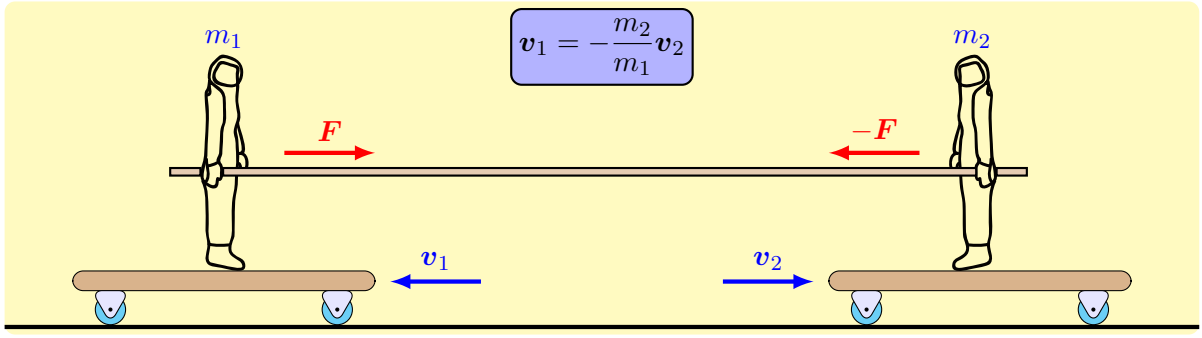

$\boldsymbol{v}_1 = -\dfrac{m_2}{m_1}\boldsymbol{v}_2$
m_1
m_2
$\boldsymbol{F}$
$-\boldsymbol{F}$
$\boldsymbol{v}_1$
$\boldsymbol{v}_2$