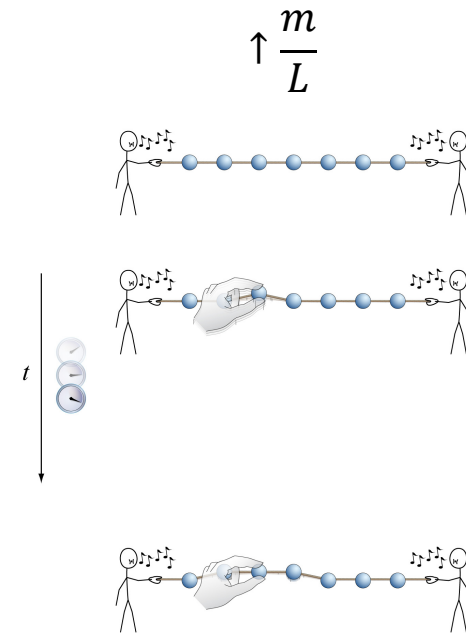
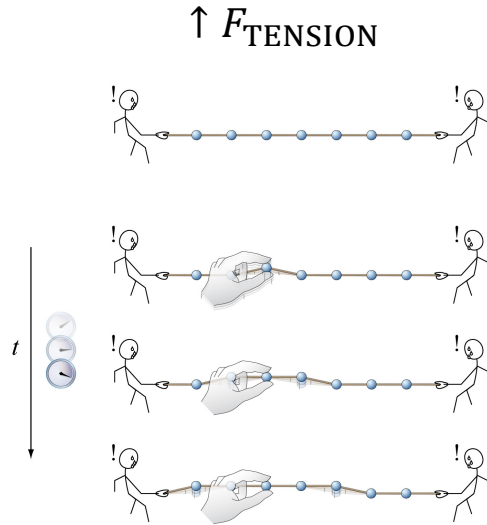
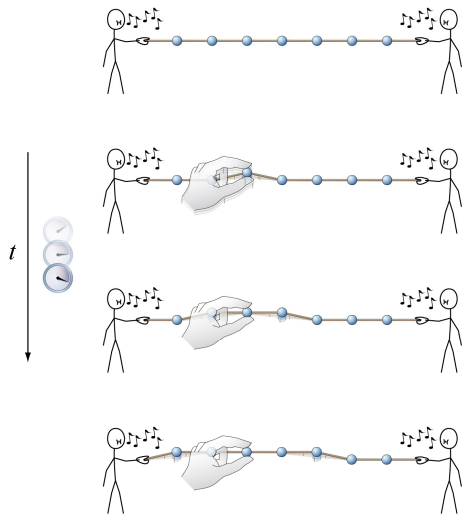


# Speed of transverse wave on a string

Mass elements in a tight string pull on each other, so wave disturbances can propagate along the string.



$\uparrow F_{\text{TENSION}}$

$\uparrow \frac{m}{L}$

$\uparrow a$   
 $\uparrow v_{\text{STRING}}$

$\downarrow a$   
 $\downarrow v_{\text{STRING}}$

$$v_{\text{STRING}} = \sqrt{\frac{F_{\text{TENSION}}}{\left(\frac{m}{L}\right)}}$$