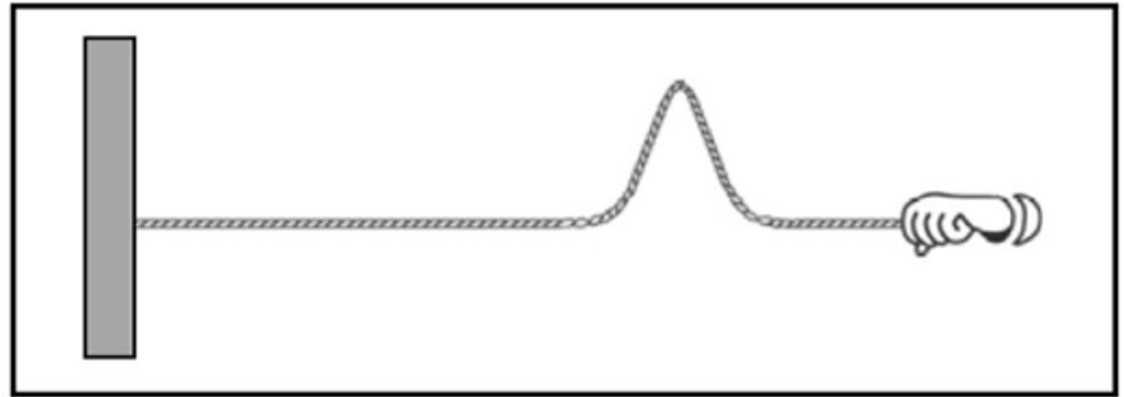


# Mass density pulse flick question

Consider the following two scenarios: In scenario 1, your Teaching Assistant (TA) creates a pulse by flicking the end of a spring, as in the figure at right.



In scenario 2, your TA uses a heavier spring (*i.e.*, increases the mass density of the spring) and then creates a pulse by flicking the end of the spring in the same way. The pulse in scenario 2 travels down the spring **more slowly** (*i.e.*, has a lower speed) than the pulse in scenario 1.

*Why would it make sense for a pulse to move more slowly on a heavier spring?*

