

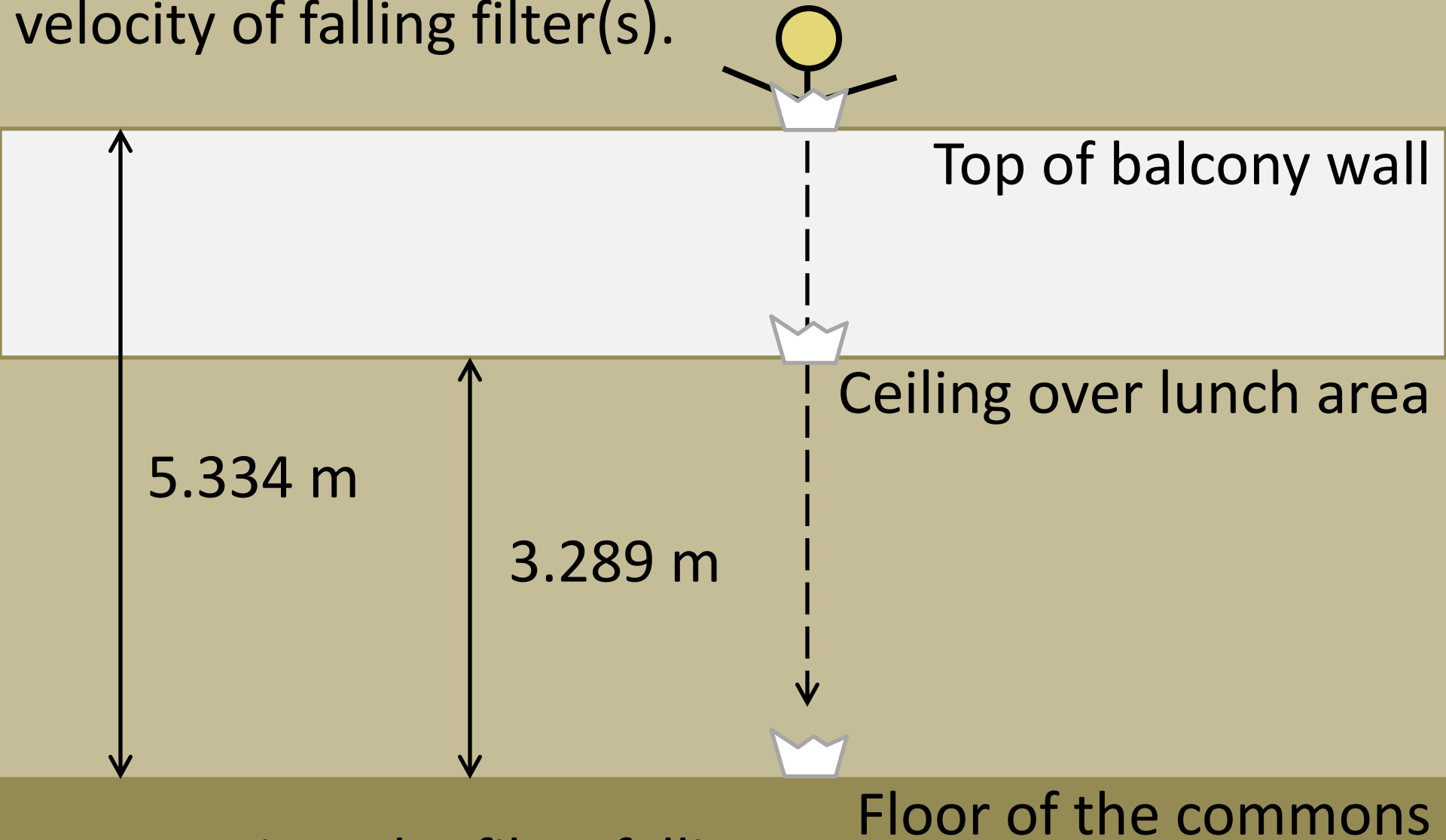
Air Resistance Lab

Fun with Coffee Filters!

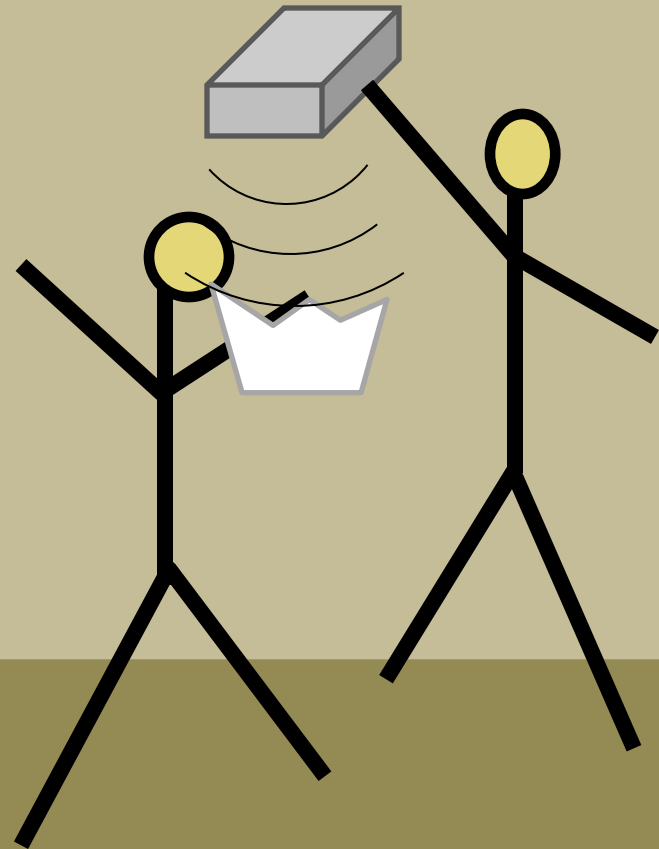
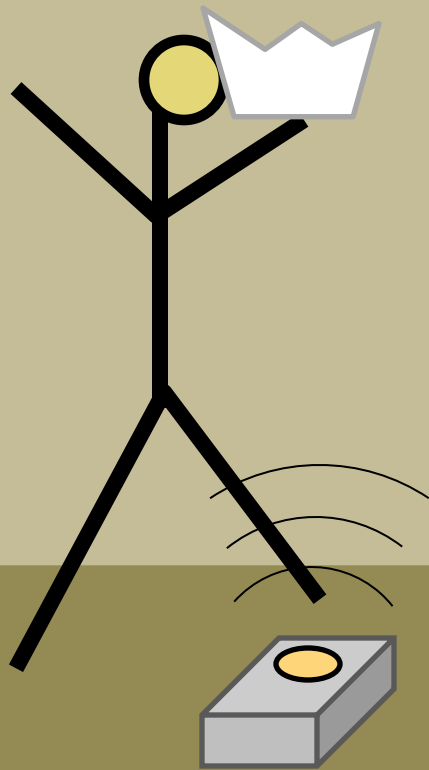
Tips for Success

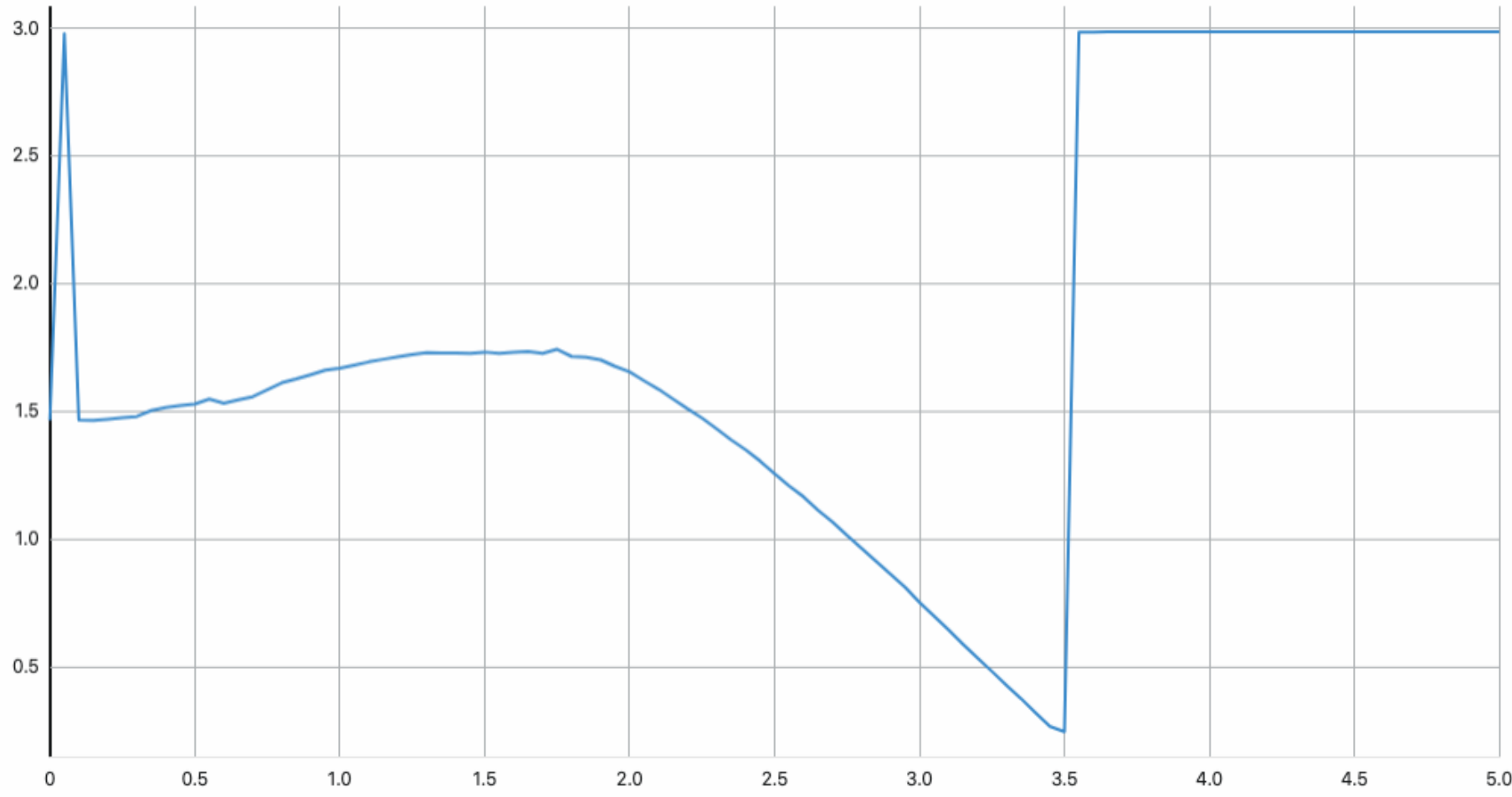
- Count but **do not separate** filters to get a stack of seven (at least). It is okay if you accidentally get more than seven.
- Dropping technique – two hands move out to the sides and away from the filter(s).
- Timing and distance – use your best judgment, decide as a group. There are advantages and disadvantages to either distance over which you might time the filter(s).
- Label the filters with a pencil as you disassemble the stack so that you can measure mass correctly.

Goal: determine the terminal velocity of falling filter(s).



You may time the filter falling over either of these distances.

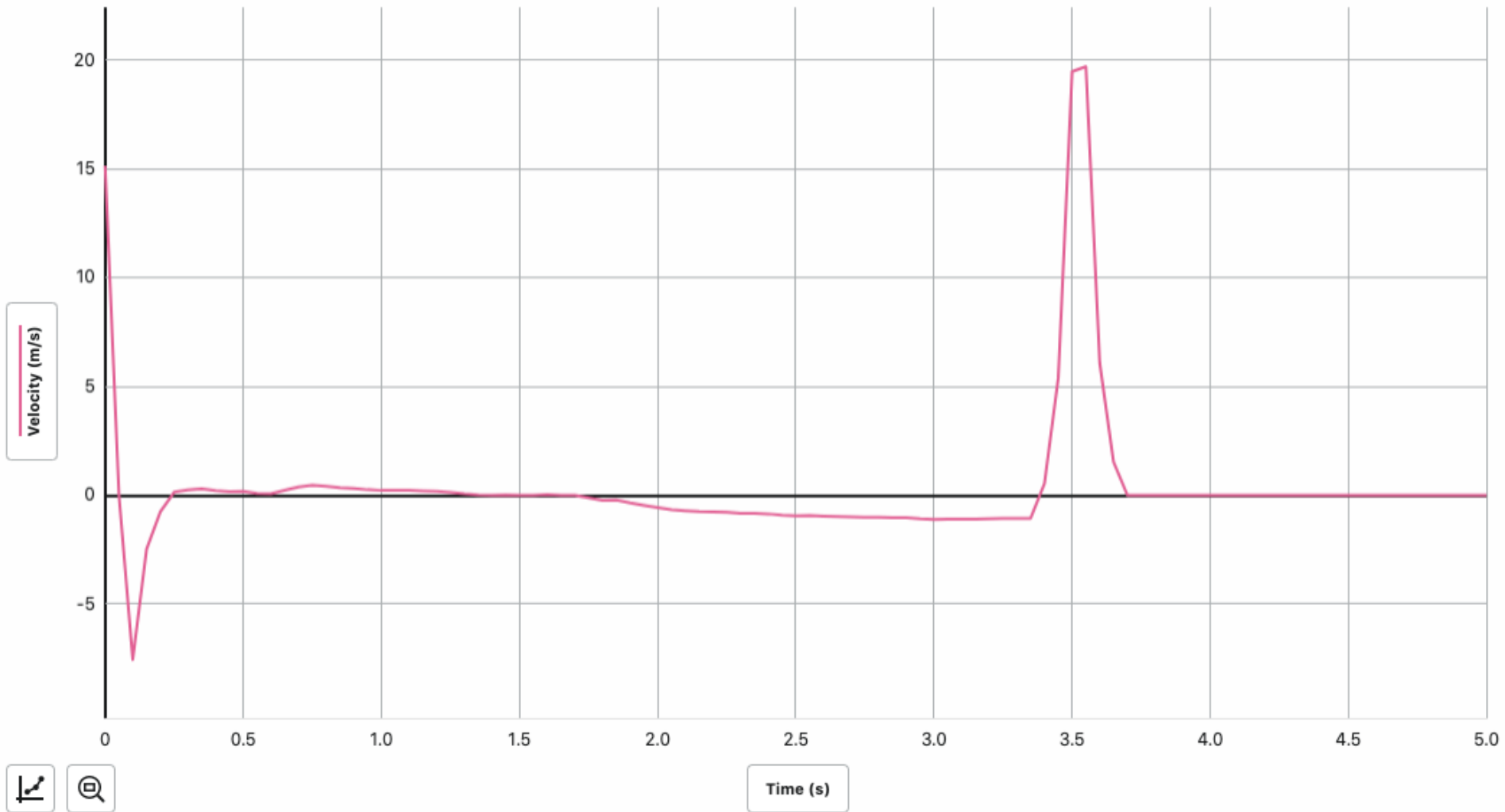


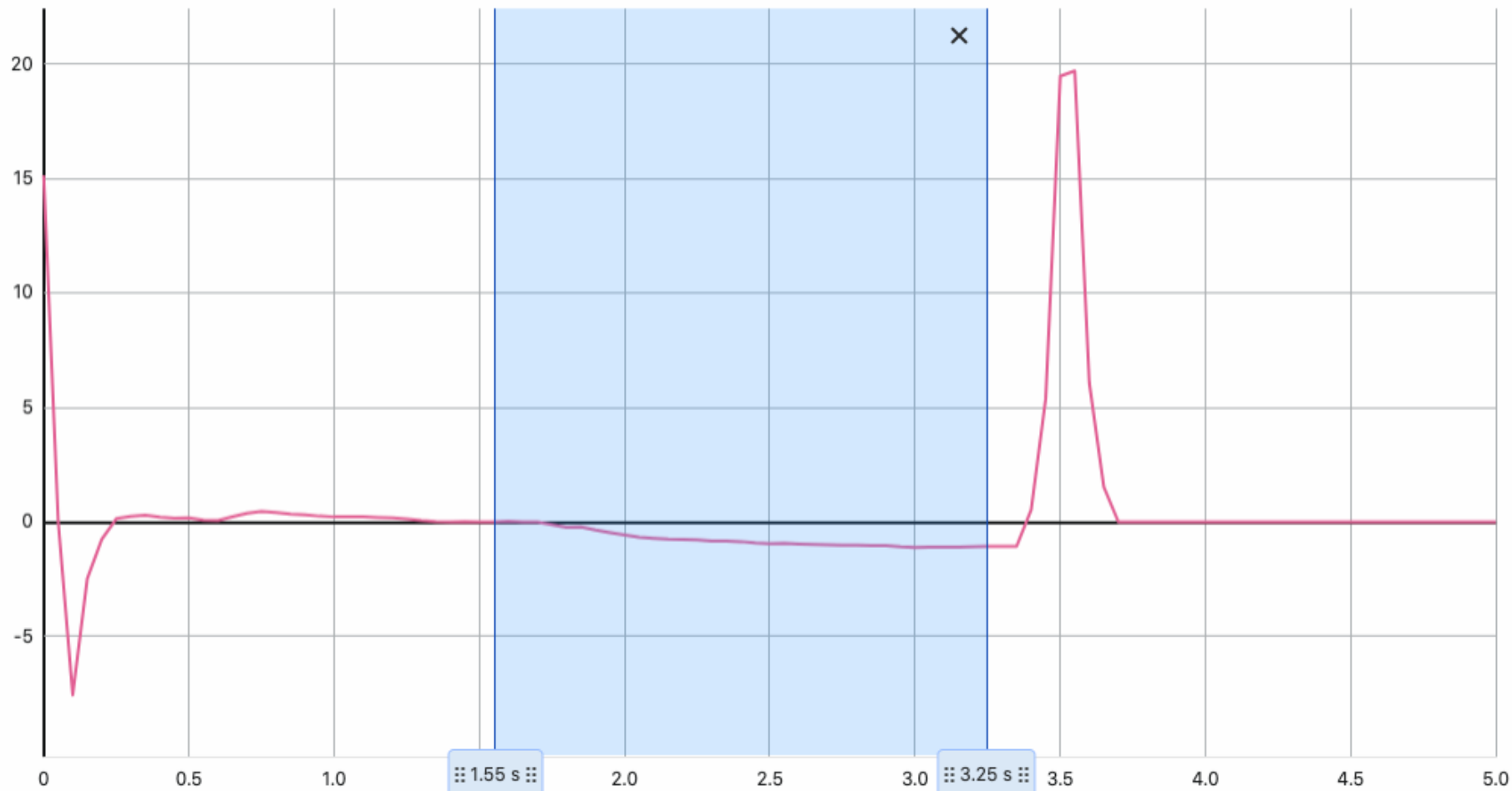


Position (m)

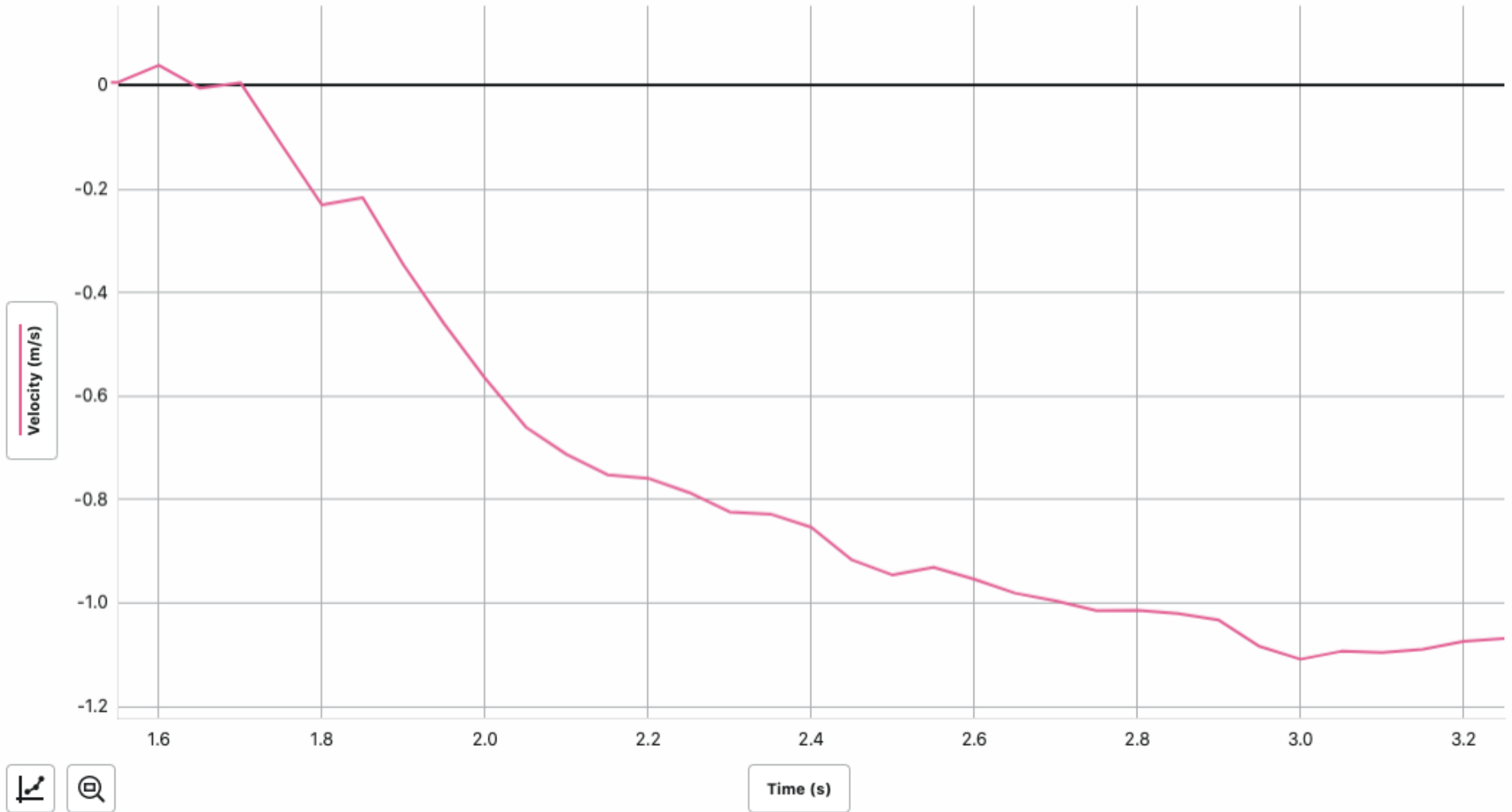
Time (s)







Time (s)



Velocity vs. Time for Falling Filters

