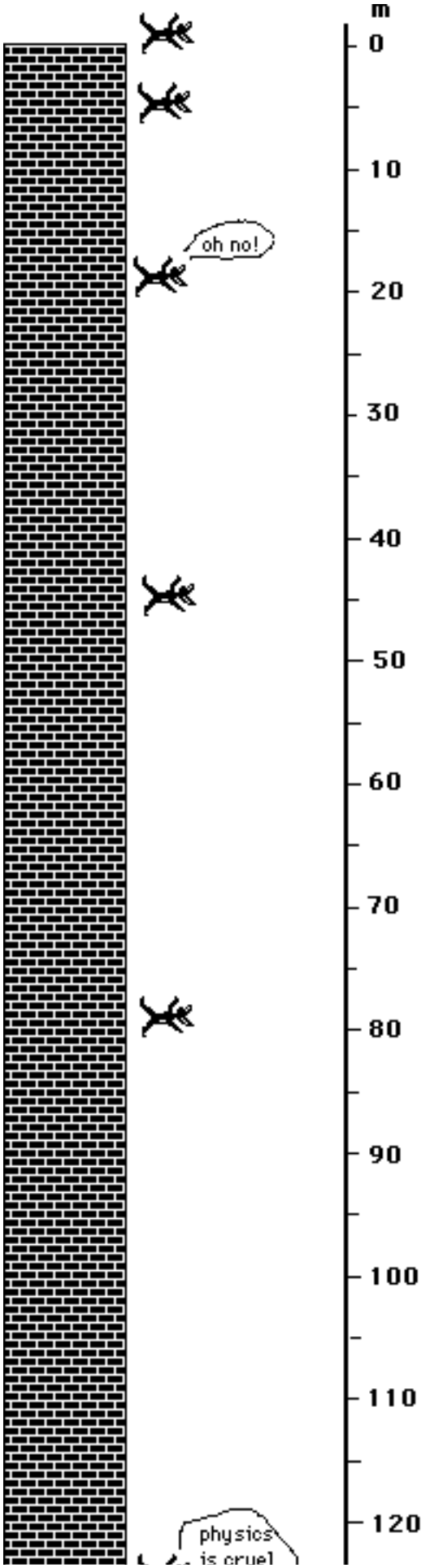
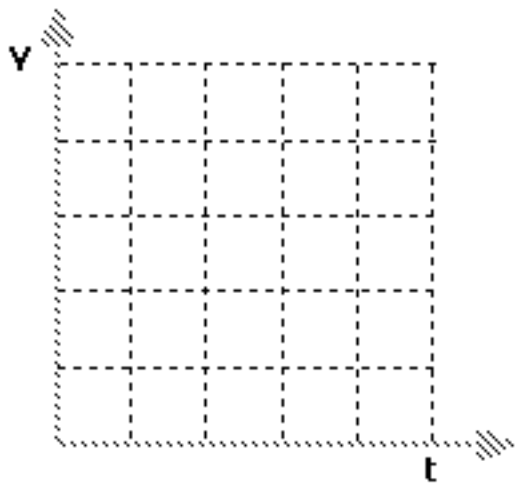


Wile E Coyote on the Planet Newtonia

Wile E slipped off the edge of a tall building and was photographed at one second intervals as he underwent free fall. Complete the table below, plot final velocity vs time, then answer the questions.

T (s)	y (m)	$\bar{V}$ (m/s)	V_f (m/s)



1. Write the equation for the graph above.

2. Using your graph, determine the value of the acceleration.

3. Using your graph, determine the displacement during the first 3 s.

4. Using the mathematical model, determine the displacement during the first 3 s.

d splacement dur ng the r rst 3 s.