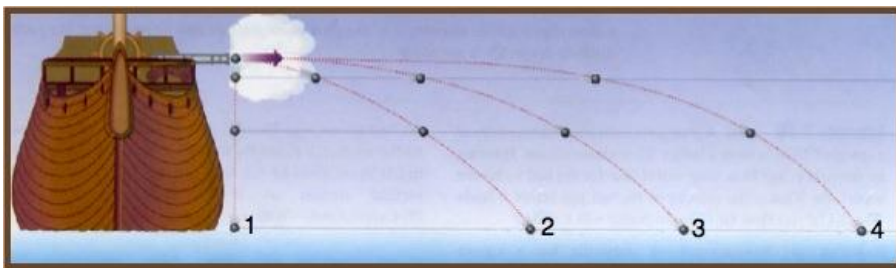


Projectile Motion PreLab

Name: _____ Lab Section: _____

Date: _____

PreLab Activity (10 points) – Complete prior to your lab session & hand in at the START of lab.



1. Above illustrates a “strobe” picture showing cannonballs being shot out of a ship at different speeds. One question a student may ask is: does the cannonball that travels the farthest (shot at the highest speed—cannonball #4) take longer to hit the water than the one that does not travel as far (cannonball #1)? Answer this question in the space below and explain why:

The horizontal lines in the picture are spaced at equal time intervals, which show each cannonball falls towards the water at the same rate. It takes 2.1 seconds for each cannonball to hit the water. Using the Equations of Motions taught in class (show your work to get full credit):

- c. Calculate the height the cannonball from the surface of the water just before the cannon fires:

End of PreLab – Hand in at the BEGINNING of the lab period to get points