



PHYSLETS ANSWER SHEET

KS2A6

Kinematics / Set 2 / Animation 6

Name _____ Class _____

<Show all work on calculations. Include proper units. Explanations require complete sentences.>

1) Which of the three angles gives the largest range, time of flight and max height .

2) Of 30 degrees and 60 degrees, which angle would a football player wish to kick a ball so that his teammates have the best chance of running downfield and tackling the opposing player that catches the ball ?

3) Of 30 degrees and 60 degrees, which angle would a baseball player wish to throw a ball so that his throw beats an opposing runner to the next base ?

4) If the shell is launched at 30 degrees, what happens to the time of flight if the angle is increased to 45 degrees ?

5) If the shell is launched at 45 degrees, what happens to the time of flight if the angle is increased to 60 degrees ?