



PHYSLETS ANSWER SHEET

ES1A2

Energy / Set 1 / Animation 2

Name _____ Class _____

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

1) At what point in the motion does the ball have the greatest kinetic energy? Explain:

2) At what point in the motion does the ball have the greatest gravitational potential energy?

Explain:

3) Calculate the maximum gravitational potential energy of the ball (relative to the lowest point in its motion).

4) Calculate the maximum velocity of the ball (include direction).

5) What is the direction of the ball's acceleration when it is at the bottom of the bowl? (draw an arrow if necessary):

6) What is the direction of the ball's acceleration when it is at the top of the bowl? (draw an arrow if necessary):