



PHYSLETS ANSWER SHEET

MPS1A1

Modern Physics / Set 1 / Animation 1

Name _____ Class _____

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

1) What is the direction of the FORCE acting on the electron while it is between the charged plates?

2) What is the direction of the ELECTRIC FIELD between the charged plates?

3) What is the Force acting on the electron as a result of the Electric Field?

_____ N

4) If the speed of the electron is doubled by how much will the Force on the electron change?

5) If the electron is replaced with a proton how would the following values change?

a) The direction of the Force on the proton _____

b) The direction of the Electric Field _____

c) The magnitude of the Force on the electron _____

d) The shape of the trajectory _____