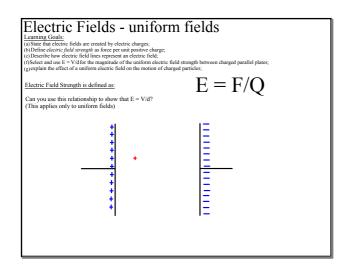
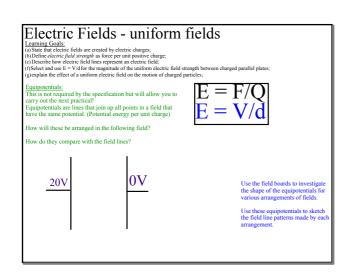
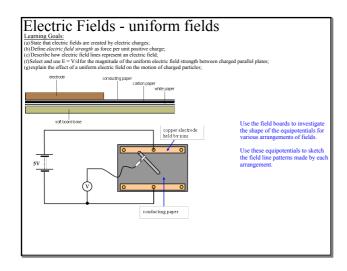
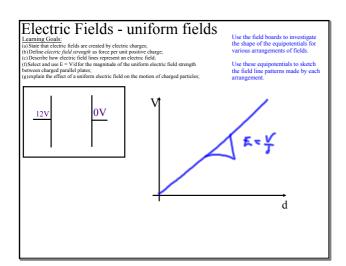
Electric Fields - uniform fields Learning Goals: (a) State that electric fields are created by electric charges; (b) Define electric field strength as force per unit positive charge; (c) Describe how electric field times represent an electric field; (S) electric field use E = Vidfor the magnitude of the uniform electric field strength between charged parallel plates; (g) explain the effect of a uniform electric field on the motion of charged particles; Starter: Look at the situation below. Draw lines showing what would happen if a positive charge were placed in the gap between the charged plates. What would happen if it was placed just outside?









Electric Learning Goals: (a) State that electric field (b) Define electric field (c) Describe how electric (f) Select and use E = V/between charged paralle (g) explain the effect of a	lds are created by electric strength as force per unit c field lines represent an d for the magnitude of the el plates;	Use the field boards to investigate the shape of the equipotentials for various arrangements of fields. Use these equipotentials to sketch the field line patterns made by each arrangement.		
	0V	12V	o ^{0V}	0
O 12V	$O_{0\mathrm{V}}$	O 12V	O 12V	

Electric Fields - uniform fields			
Learning Goals: (a) State that electric fields are created by electric charges; (b) Define decrire field strength as force per unit positive charge; (c) Describe how electric field three spresent an electric field; (f) Select and use E = Vld for the magnitude of the uniform electric field strength between charged parallel plates; (g) explain the effect of a uniform electric field on the motion of charged particles;			
(c) Describe how electric field lines represent an electric field; (f)Select and use E = V/d for the magnitude of the uniform electric field strength between charged parallel plates;			
Plenary			
$e = 1.6x10^{19}C$ $mass e = 9.11 x 10^{11}Kg$			
BEAM DEAM			
An electron beam gun uses an anode to accelerate electrons emitted from a cathode.			
The anode voltage is 100kV The distance between the cathode and anode is 30mm			
Y.DI ATES			
Calculate: a) The force on each electron b) The acceleration of the electron			
c) The final velocity of each electron Cathode Ray Tube			
	1		
	<u> </u>		