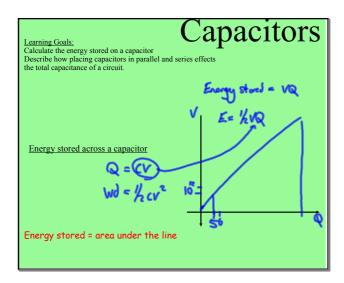
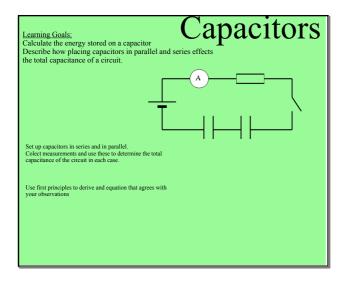
Capacitors Capacitors
Calculate the energy stored on a capacitor Describe how placing capacitors in parallel and series effects the total capacitance of a circuit.
Starter (recap):
Define Capacitance
If a 500uF capacitor was charged with a constant current of 3A for 15s, what would the potential difference stored across it be?

Oct 3-11:26



Oct 3-11:26



Oct 3-11:26

Calcul Descrithe tot	capacitors ate the energy stored on a capacitor be how placing capacitors in parallel and series effects al capacitance of a circuit. /F? apacitors are initially uncharged. The switch is then closed.	
Statements:		
	The current at ALL points around the circuit, at any instant, is the same.	
2.	The charge stored on the two capacitors is the same.	
3.	The voltage across the two capacitors, at any instant, is the same.	
4.	The voltage across both capacitors in total is less than the emf of the cell.	
5.	The voltage across the resistor increases with time.	
6.	Changing the cell for one with a higher emf will increase the time it takes for the capacitors to charge up.	
7.	The energy stored on each capacitor is the same.	
8.	The total energy stored on the capacitors is half the work done by the cell.	

Oct 3-11:26

Learning Goals: Calculate the energy stored on a capacitor Describe how placing capacitors in parallel and series effects the total capacitance of a circuit.
<u>Plenary</u>

Oct 3-11:26