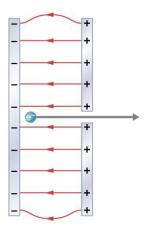
Electric Potential Energy Starter Examples:

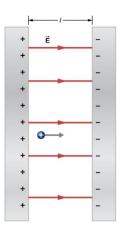
1. How much **work** is required to move a charge of $4 \mu C$ from a point 2m away to a point 0.5 m away from a point charge of $60 \mu C$?



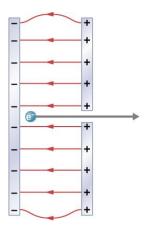
2. Calculate:

- a) The final **speed** of an **electron** accelerated from rest through 10000V potential difference. Watch you signs
- b) The final speed of a **proton** accelerated through a -10000V potential difference.





3. Through what **potential difference** is needed to accelerate an electron to 1.80×10^7 m/s?



4. What is the **electric potential** at point P in the diagram to the right?

