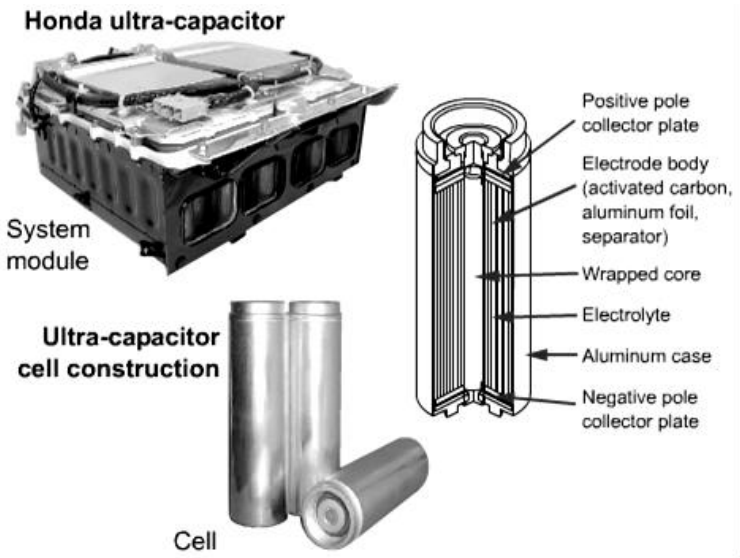
Interactive Problem Cap 2

Name_____ Block____



An FCX fuel-cell car brakes and stops at a traffic signal. During this time, its 8.00-farad ultracapacitor gets fully charged by a combined potential difference of 200 V generated by the brakes and the fuel cell. When the light turns green, the 1680-kilogram car initially uses only energy from the capacitor to accelerate.

How fast will the car be moving when the capacitor is fully discharged?

Why?

Check your Why? with Mr. C before continuing.

How?

Show all work including substitution with units.

Open the short cut **IP Cap 2** in the folder on one of the lab stations.
Enter the answer you found above. Check your answer by hitting the check button.
If your answer is not correct follow the interactive steps below the problem to work through the solution. Write the correct solution on the back of this page.