

Electromagnetic Induction – loops and coils

Four **unconnected** pieces of wire are mounted on a cardboard square. A stick is fixed to the back of the square. The corners of the square are labelled A, B, C and D. To the right of this there is a uniform magnetic field which is directed into the page.



1. The square is moved to the right at a constant speed, then brought to a stop in the middle of the field. Describe and explain what happens to the potential difference across the ends of each of the pieces of wire when this happens. Make sure you are clear which end is positive and which is negative. A sketch of voltage against time might help. (You can sketch them all on the same axes.)

AB

BC

CD

DA

