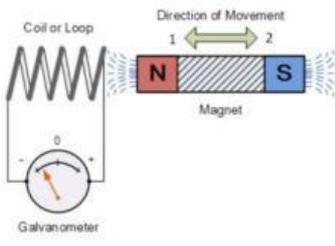
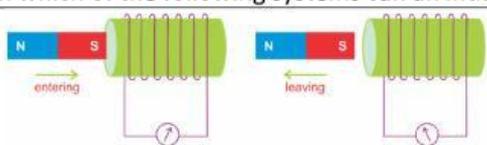
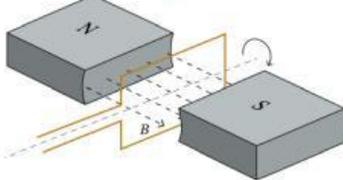
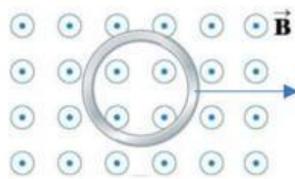
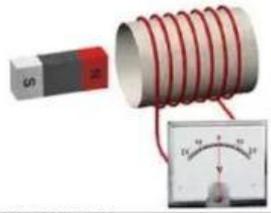
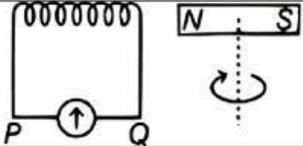


### Electromagnetic Induction

1		<p>To generate an induced current in the coil, which of the following actions must be performed?</p> <ul style="list-style-type: none"> <li>Moving the magnet in direction 1</li> <li>Moving the magnet in direction 2</li> <li>Not moving coil/magnet in direction 1 or 2</li> <li>Moving the coil in direction 1</li> <li>Moving the coil in direction 1</li> </ul>
2	<p>In which of the following systems can an induced current be generated? Select all that apply by clicking the box.</p>	
		<p>Moving magnet inside/outside coil</p>
		<p>Rotate coil between two magnet</p>
		<p>Moving metal ring around magnetic field</p>
		<p>Place magnet and coil in a fixed position</p>
		<p>Rotate a magnet beside a coil</p>
3	<p>What equation is shown below?</p> $\Phi = BA \cos \theta$ $\varepsilon = -N \frac{\Delta \Phi}{\Delta t}$	