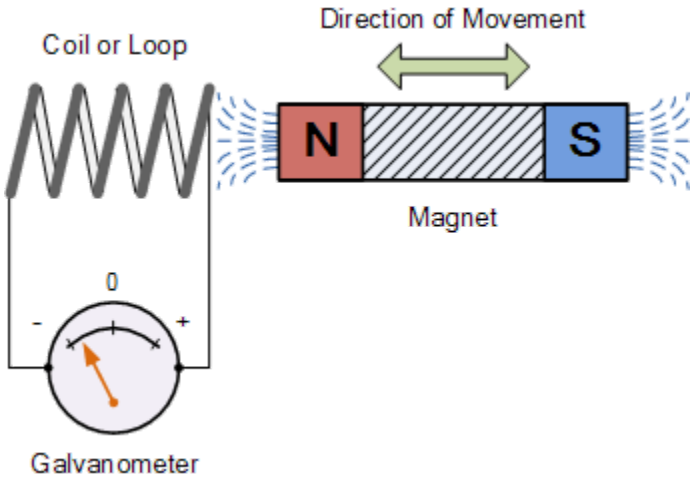
A Magnet and A Solenoid and a Galvanometer

Set up the following circuit:



Results:

Poles and Speed	**Needle Direction and Magnitude**
N pole in	
N pole out	
S pole in	
S pole out	
Slow vs Fast	

What did you generate by moving a magnet in a coil? Justify.

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Does moving the coil instead of the magnet have an effect? Describe.

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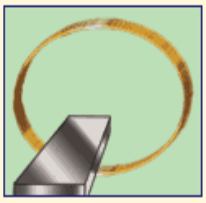

The picture shows a coil of wire. Describe the current in the coil when we:

	Clockwise	Anticlockwise	No current
a) Push the north pole of a magnet into the coil.	○	○	○
b) Pull the north pole of a magnet towards you (out of the coil).	○	○	○
c) Hold the north pole of a magnet steady in the coil.	○	○	○
d) Push the south pole of a magnet into the coil.	○	○	○

d) Push a magnet (north pole first) into the coil, through it and out the other side.