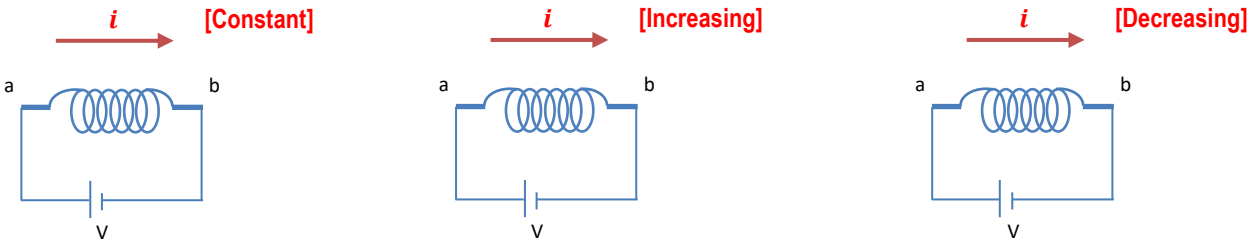
CONCEPT: INDUCTORS IN CIRCUITS

● A coil of wire placed in a circuit is known as an INDUCTOR →  OR 

● Because inductors are circuit elements, we use Kirchhoff's Rules on them as we go around in a circuit.

- Remember: Inductors only do something if the current is **[CONSTANT | CHANGING]** → $\mathcal{E}_L =$ _____



● Use Lenz's Law to find the ***direction*** of the induced EMF.

- If the direction of the induced EMF points *along* your Kirchoff Loop, the voltage is **[+ | -]**

EXAMPLE: Write out Kirchhoff's Loop rule for the following circuit, assuming the battery's voltage is increasing.