

Intro to Inductors

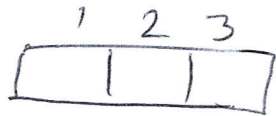
Part 1



① Welcome to gardening 101

Watering is important. I want you to be experts on watering.

What happens when you tune on the spiket?



Time to tune on



Time to turn off

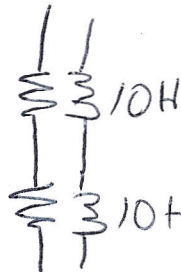
Calculate Averages

③

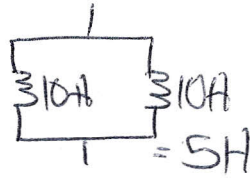


Note that the symbols are similar.

To find total Inductance you add them just like a resistor



$10H + 10H = 20H$



Do several problems on the board...

②



In Electronics this is the symbol for the garden hose.

What does it look like? (Spring Coil)

Its called an Inductor / Coil / E. Magnet
Its measured in Henrys & symbol is an L



④

Now ~~we~~ you are going to build one. what are some of the factors that make a better E. Magnet?

$$L = \frac{N^2 D M}{l}$$

- N = Number of turns
- D = Diameter of coil
- M = Material of core
- L = Length

