Find the links

Write topic key words into the first row and the first column of the table.

Use this random number generator: http://www.mathgoodies.com/calculators/random_no_custom.html to produce 2 random numbers from 1 to 9. Recall the ideas associated with those keywords and find a link between them.

	1	2	3	4	5	6	7	8	9
1									
2									
3									
4									
4									
5									
6									
7									
8									
9									

Example

Random numbers generated: x=5, y=4, Keywords Resistivity and Ohm's law. Resistivity is a material property that separates resistance of a sample from its shape, $\rho = \frac{RA}{l}$ and Ohm's law states that a conductor is ohmic if the current through it is directly proportional to the voltage across it at constant temperature. Link: A material is ohmic if $\rho = \frac{VA}{ll}$ at constant temperature.

This is a typically tenuous link. The learning happens when you sort through the definitions to find *any* common theme.

	1 Energy	2 Non ohmic	3 Electromotive force	4 Internal resistance	5 Resistivity	6 Length	7 Power	8 Series	9 Insulator
1 Charge									
2 Current									
3 Time									
4 Resistance									
5 Ohm's law					A material is ohmic if $\rho = \frac{VA}{ll}$ at constant temperature				
6 Voltage									
7 Parallel									
8 Kirchoff 1									
9 Kirchoff 2									