Voltage, Current, Resistance, and Power

Ohm's Law uses math equations to describe the actual relationship between electrical properties. If that is not an easy concept for you, go to the Ask the Teacher Forum for Basic Electricity and read the pinned topic "Math and Ohm's Law". We give you an example of using math to describe physical relationships that is easier to understand.

Summarize what you've learned in this lesson about resistance and power:

Resistance:

Power:

Summarize some of the relationships between voltage, current and resistance in a circuit that are described by Ohm's Law equations:

What is meant by "infinite resistance"?

What is "work" referring to in appliances?

From the last video on the heat generated by a loose connection, recreate the calculations here: