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The Power of Transformers

The purpose of my project is to answer the question, "How does the number of secondary wraps affect the secondary voltage on a transformer?" It was my prediction that the secondary voltage would increase with less secondary wraps and would decrease with more secondary wraps. I tested an iron core with the primary wraps being kept constant and varying the secondary wraps. I performed three trials. The change in the number of wraps on the secondary was tested to see what affect it had on the secondary voltage. The iron core being used, the amount of copper wire and wraps on the primary side were all kept the same. The only factor that was changed on purpose was the number of wraps on the secondary. The measurement of the secondary voltage was taken by using a voltmeter and recorded for each of my trials for the varying number of secondary wraps. My results showed that the secondary voltage was higher with more secondary wraps and was lower with less secondary wraps. I concluded that I made an incorrect prediction. The secondary voltage was opposite of what I predicted.