

# Try Faraday's Experiment

*Induce electricity with a magnet!*

**M**ichael Faraday, born to a poor family in London in 1791, made one of the world's most important discoveries. Curious about the mysterious relationship between magnetism and electricity, he had a hypothesis: if you change the magnetic field near a circuit, then electric current will be induced. To test his hypothesis, Faraday made a coil by wrapping a paper cylinder with wire. He then connected the coil to a galvanometer, and moved a magnet back and forth inside the cylinder.

Try Faraday's experiment and see what happens. His amazing discovery in 1831 is the basis for today's electrical generators.



*I am*

*busy just*

*now again on electro-magnetism, and think I have got hold of a good thing, but can't say. It may be a weed instead of a fish that, after all my labor, I may at last pull up.*

Michael Faraday, 1791–1869