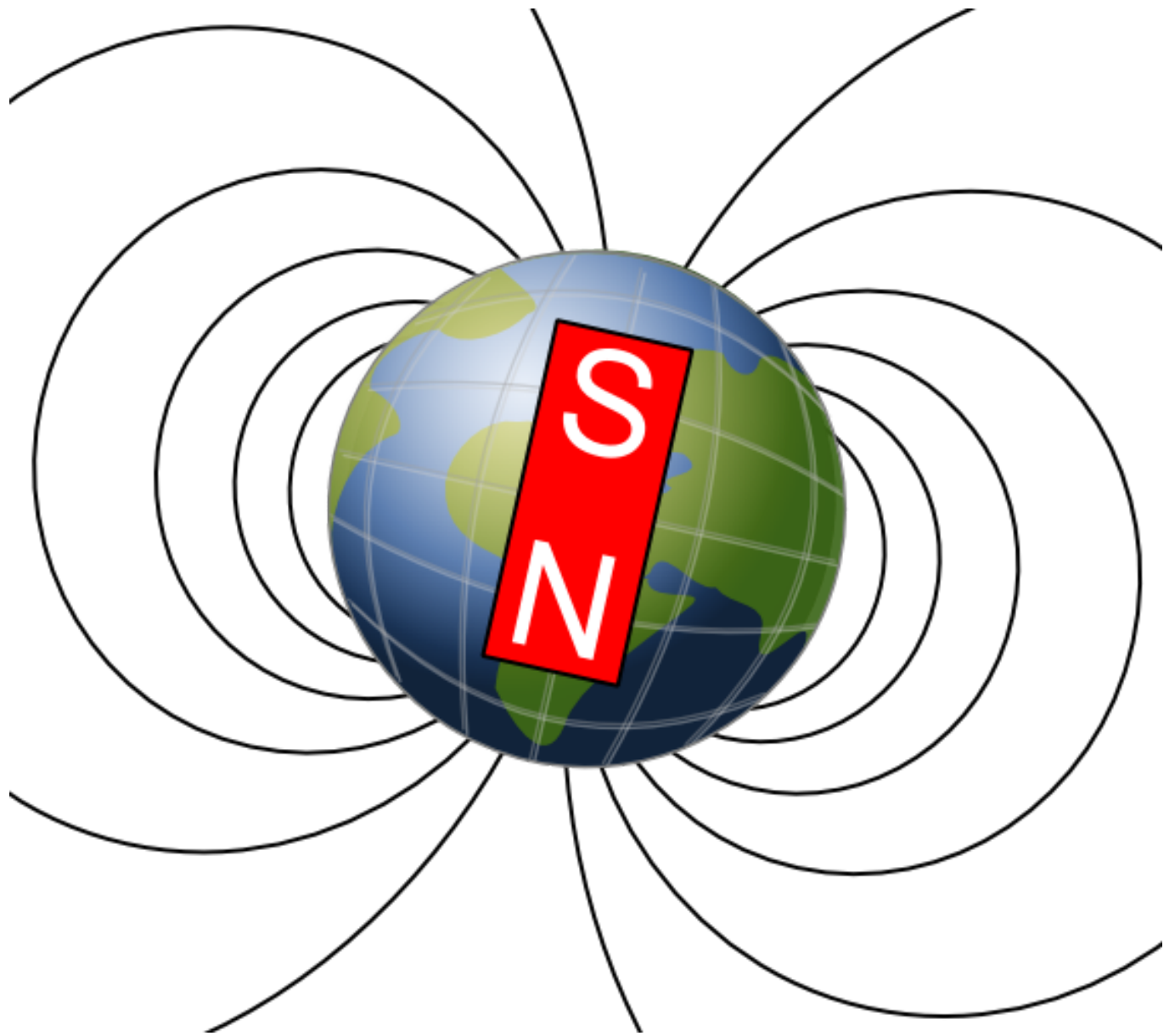


Lesson 7: Making a Temporary Magnet

OPENER

- ❖ Suppose someone says, “The Earth has a dipole magnetic field because there is a large bar magnet inside it.” Draw a model of this hypothesis.
- ❖ Do you think this hypothesis could be correct? Explain.



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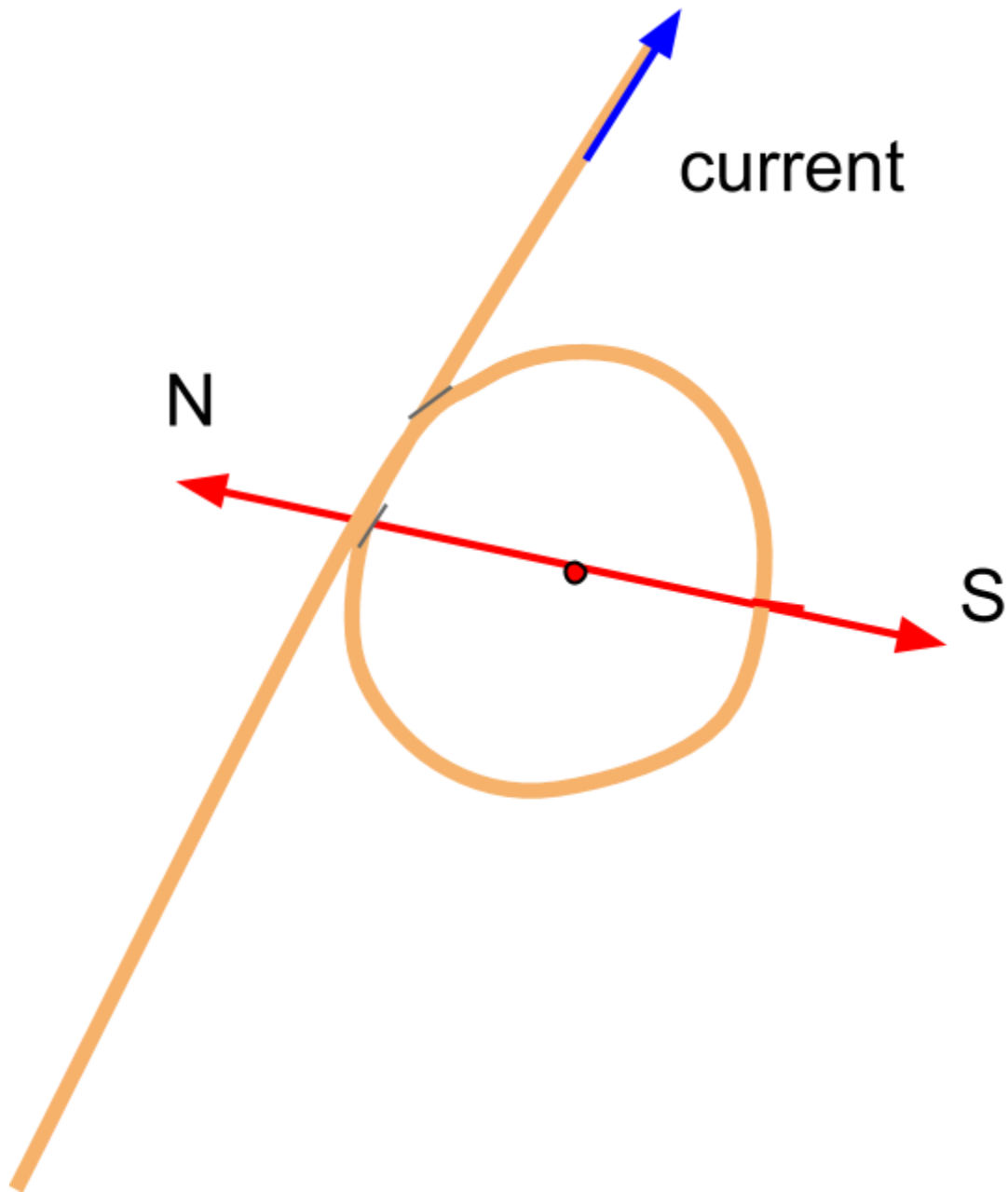
Lesson 7: Making a Temporary Magnet

Demo/Activity: Temporary Magnet Using Stroke Method

1. What did the permanent magnet do to the nail to make it temporarily behave like a magnet?

Demo: Electromagnet

2. What did the electrical circuit do to the nail to make it temporarily behave like a magnet?



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Lesson 7: Making a Temporary Magnet

EXIT CARD

- ❖ Suppose someone says, “The Earth has a dipole magnetic field because there is a large electrical current inside it.” Draw a model of this hypothesis.
- ❖ Do you think this hypothesis could be correct? Explain.
- ❖ What are some major differences between this model and the one from the beginning of the lesson, showing a bar magnet inside Earth? Choose all that apply.
 - A. The structure of Earth’s interior
 - B. The material of Earth’s interior
 - C. The shape of the magnetic field
 - D. The way the magnetic field affects objects (like a compass)
 - E. The stability of the magnetic field over the history of the Earth

HOMEWORK

- ❖ How are electrons and electricity related?
- ❖ How can electrons and magnetic fields be related?