# Anticipation Guide: Electricity from Magnetism

**Before Reading:** In the space to the left of each statement, place a check mark (✓) if you agree or think the statement is true or an (X) if you disagree or think the statement is false.

**During or After Reading:** Add new check marks or cross-through the X’s for which you have changed your mind. Keep in mind that this is not like the traditional “worksheet”. You may have to put on your thinking caps and “read between the lines.” Use the space under each statement to note the **page, column, and paragraph(s)** where you have found information to support your thinking (evidence).

1. \_\_\_\_\_ Electricity and magnetism are related.
2. \_\_\_\_\_ Moving a compass near a wiring carrying an electric current will move the compass needle.
3. \_\_\_\_\_ When a wire carries a current all compass needles near the wire line up with the magnetic field.
4. \_\_\_\_\_ The direction of the magnetic field around a wire is in concentric circles.
5. \_\_\_\_\_ Wrapping more coils of wire creates a weaker magnetic field.
6. \_\_\_\_\_ The direction of a magnetic field follows a linear path around a wire.
7. \_\_\_\_\_ Solenoids acts as magnets when it carries a current.
8. \_\_\_\_\_ The magnetic field created by a solenoid is similar to the magnetic field of a bar magnet.
9. \_\_\_\_\_ The field lines of a solenoid can be increased by inserting a wooden dowel.
10. \_\_\_\_\_ The left hand rule is used to determine the direction of a magnetic field in a current-carrying wire.

Reading Assignment: Holt McDougal **Physics** (black book) pages 670 - 672