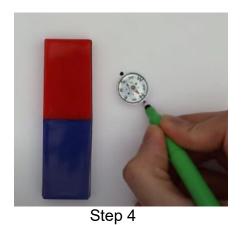
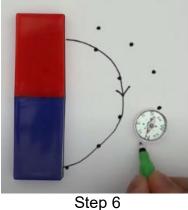
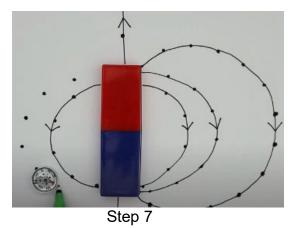


Modeling Magnetic Fields Handout

- Trace one of the bar magnets on a piece of paper.
 *If you have a gyrocompass, you must orient the magnet to magnetic North.
- 2. Start by placing the compass next to the magnet, near one of the magnet's poles.
- 3. On the paper, mark where the needle is pointing with a dot.
- 4. Move the compass so that the back of the needle lines up with the dot. Repeat step 3, mark where the needle is pointing with a dot.

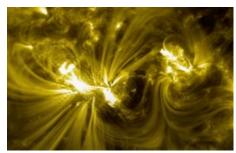


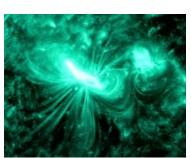




Credit: VT Physics

- 5. Repeat step 4 until your compass is touching the magnet at the opposite poles. Connect the dots.
- 6. Repeat steps 2-5, starting at different points near the pole of the magnet, tracing the magnetic field lines.
- 7. Repeat steps 2-6 on the other side of the magnet.









Magnetic field lines seen in solar Flares and CMEs.

Credit: NASA

