Magnetism Inquiry #1

*(Interactive Notebook Template)*

Objective: To use all 3 pounds of my gray matter to learn as much as possible about magnets by observation, experimentation, and research.

 *Background Knowledge: Collective Brainstorm*

*PURE PLAY!*

1. Learning by Observation
2. Observations: I saw:

*(Kagan Structure-Round Robin:*

*Collaborate to put what you learned about magnets and magnetism into clear, concise terms. Number your observations.)*

1. I wonder… *Create a list of questions you have about*

 *magnets/magnetism.*

1. Learning by Experimentation-Ask a question. Design an experiment to answer it!
2. Testable Question:
3. Hypothesis: *What do you THINK the answer is? I think…BECAUSE….*
4. Procedure: *What did you DO to answer your question? (In numbered steps)*
5. Data: *What did you observe?*
6. Conclusion: *What is the answer to your question? Was your hypothesis correct, or incorrect?*

SAMPLE INQUIRY:

1. Testable Question: Are there magnetic materials in soil?
2. Hypothesis: We believe that there are magnetic materials in soil, because iron is mined from the earth, and iron is magnetic.
3. Procedure:
4. Drag a bar magnet through the soil, 2 cm deep and 4 cm. long. Clean off any magnetic material that collects on the magnet between tests.
5. Do this sampling at three different places in the schoolyard.