

Name: _____ Date: _____ Period: _____

Magnets and Migration

Investigation: Watch the Investigation video, follow the instructions, and answer questions 1-5

1. What happened when you placed the bar magnet over the compass?
2. Where on the earth do you think the magnetic field is the strongest?
3. Create your own model of Earth's magnetic field using your iron filings, bar magnet, and paper. Describe or draw the model that you created, and explain how it shows Earth's magnetic field.
4. Name one piece of evidence you saw that magnets can exert a force on something, even they aren't touching.
5. Why does a compass point towards the earth's geographic North Pole?

Magnetic Fields in 3D: Watch the Magnetic Fields in 3-D video and answer questions 6 and 7.

6. What will happen when we drop the magnet in? Use the word 'force' in your answer.

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7. Where on the earth is the magnetic field the strongest?
 - A. The equator
 - B. The north and south pole

The Great Migration: Play the game and answer questions 8-10.

8. Give one interesting hummingbird fact from the game.

9. Give one interesting magnet fact from the game

10. Describe one example of evidence you saw in your investigation or in the migration game that magnetic fields exist around Earth and exert forces on objects, even if they aren't touching.