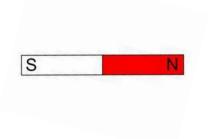


Earth's Magnetism Online Activity

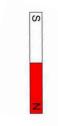
Name:	Hour:	Date:	
_			

<u>Directions</u>: Follow the steps below to complete this activity. Stay focused and on task. Stay on the websites to which you are directed. Use the computers appropriately. Do your best quality work. Ask for help as needed and learn. ©

- 1. Go to the EMSIB.Weebly.com (both 4th and 5th hours need to do this).
- 2. Scroll over <u>Science</u> and then click on <u>6th Websites & Resources</u>.
- 3. Scroll down to the <u>Surface Features of Earth: Soil, Agents of Erosion, and Earth's Magnetism</u> section at the bottom. You will be visiting both of the links at the bottom of this section. You will start with PhET. Click on *PhET Magnetism*.
- 4. Click the green **RUN NOW!** button. Wait for the program to load.
- 5. Move the compass all around the magnet. Draw a picture of the **Lines of Force** around the bar magnet below.



6. Click on the box – on the right of your screen - that says **Show Planet Earth**. Move the compass all around the Earth. Draw where Earth belongs on the magnet and draw the correct **Lines of Force**.



Now you will be moving to the next website. Return to the 6th Websites & Resources page.

- 1. Click on the link Windows to the Universe Magnetism.
- 2. Read "Magnetism." Flip over the paper and continue working on this assignment.
- 3. Magnetism is one of the main ______ of nature, like the force of gravity.

	togeth	er, the force will attract the two magnets if the poles are	
5.	Scroll	down the page to the bottom section called "You might also be interested in…" and click	
	on <u>Ear</u>	th's Magnetic Poles. Answer the following questions as your read.	
	a.	If you imagine a gigantic inside the	
		earth, you will have a pretty good idea what	
		is shaped like.	
	b.	Of course, Earth does <u>NOT</u> have a giant bar magnet inside it. Earth's magnetic field is made by swirling motions of molten iron in Earth's	
		:	
	c.	Earth's magnetic poles are near, but	
	d.	Read the rest of the magnetism information on this page. Describe 2 interesting things you learned.	
6.	Look a	t the diagram of Earth's magnetic field. Now watch the picture change to the magnetic	
		f the bar magnet. Are they similar?	
7.	7. Under the picture you will find <u>Related Links</u> . Click on <u>Earth's North Magnetic Pole Interac</u>		
	a.	Read the paragraph and follow the directions. Can you find the North Magnetic Pole by moving the compass around? Click the box next to Show Magnetic Pole and see if you	
		are correct.	
	b.	How well (close, somewhat close, way off) does the compass work for showing the geographic North Pole in	
		Mexico? Florida?	
		Alaska? Greenland?	
	C.	Look at the top of the screen in the first paragraph, find the purple link – <u>North</u>	
		<u>Magnetic Pole</u> . Click on it. Read. What is one interesting fact about the Magnetic	
		North Pole? Explain.	

Great work! –Turn your extra credit into the <u>Inbox</u> by Monday, March 9, 2015 for credit. Late assignments will not be accepted. Study for your Science Test on Tuesday, March 10, 2015.