Note Taking Guide - Introduction to Magnetism

- Like
- Unlike
- Magnetic field -

**Origin of magnets:**
- Lodestone -
- Chinese invented -

N pole -
S pole -

*Compass* -

The _________ pole of the earth’s magnetic field is located close to the _________ geographic pole.
The N pole of a compass needle is attracted to the earth’s _____ magnetic pole.

magnetic declination - difference between ___________ and _____________ poles.

**Lab Data Table - Which objects are magnetic?**

<table>
<thead>
<tr>
<th>paper clip</th>
<th>penny</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminum foil</td>
<td>razor blade</td>
</tr>
<tr>
<td>nail</td>
<td>straight pin</td>
</tr>
<tr>
<td>paper</td>
<td>wood</td>
</tr>
<tr>
<td>quarter</td>
<td>zinc</td>
</tr>
</tbody>
</table>

Ferromagnetic elements:

- 
- 
- 
-
Why aren’t all nails magnets?

Domains -

- 

- 

- 

Hard ferromagnetic materials (alloys) make better permanent magnets than soft iron because -

Dropping a permanent magnet weakens it. Explain.

How will a magnet will be affected by breaking it in two?

How will heating a magnet affect it?

Show What You Know: