

## Magnetism –Worksheet

1. Which three metals do you think might be present in Alnico? Explain your answer. Which ones are magnetic?

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2. How do magnetic materials differ from non-magnetic materials in:

a) What are they made from?

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b) Their properties?

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3. What is the relationship between the distance from the magnet and the strength of the magnetic force?

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4. A nail is magnetised by being in contact with one end of a magnet. Can it still attract magnetic materials to it when it is no longer in contact with the magnet? Explain your answer.

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5. If three steel paper clips are attached in line to the bottom of magnet the lowest paper clip is attached less strongly to the middle one than the middle paper clip is attached to the top one. A fourth paper clip cannot be added. Explain why the paper clips behave in this way.

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6. If you cut a magnet in half does each half become a magnet? Explain your answer.

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7. A piece of steel can be made into a magnet by repeatedly stroking it with a magnet. How does this affect the domains?

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8. A black stone was discovered to have magnetic properties.

a) What was this stone first called?

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b) What is its modern mineral name?

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9. What lines up inside a magnetic material to turn it into a magnet .

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