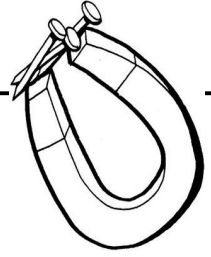


Name: _____

Metals and Magnetism



Question: Do magnets attract all metals?

Materials: samples of different metals (copper, iron, aluminum, brass, and stainless steel);
coins (penny, nickel, dime, and quarter);
bar magnet or horseshoe magnet

Step 1:

Predict

Examine the sample of each metal. Predict which types of metals will attract to the magnet.

copper	yes	no
iron	yes	no
aluminum	yes	no
brass	yes	no
stainless steel	yes	no

Step 2:

Find the Result

Touch the magnet to each metal sample to determine which metals actually attract to the magnet.

copper	yes	no
iron	yes	no
aluminum	yes	no
brass	yes	no
stainless steel	yes	no

Step 3:

Predict

Examine each coin. Predict which coins will attract to the magnet.

penny	yes	no
nickel	yes	no
dime	yes	no
quarter	yes	no

Step 4:

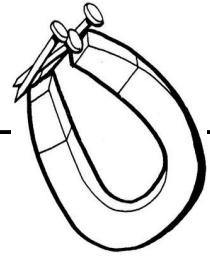
Find the Result

Touch the magnet to each coin to determine which coins actually attract to the magnet.

penny	yes	no
nickel	yes	no
dime	yes	no
quarter	yes	no

Conclusion: _____

ANSWER KEY



Metals and Magnetism

Question: Do magnets attract all metals?

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Step 2:

Find the Result

Touch the magnet to each metal sample to determine which metals actually attract to the magnet.

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brass	yes	no
stainless steel	yes	no

Step 3:

Predict

Examine each coin. Predict which coins will attract to the magnet.

penny	yes	no
nickel	yes	no
dime	yes	no
quarter	yes	no

Step 4:

Find the Result

Touch the magnet to each coin to determine which coins actually attract to the magnet.

penny	yes	no
nickel	yes	no
dime	yes	no
quarter	yes	no

***Note:** Answers may vary, depending on the country and year of the coins.

Conclusion: Only some metals are attracted to magnets.