



Name that metal!

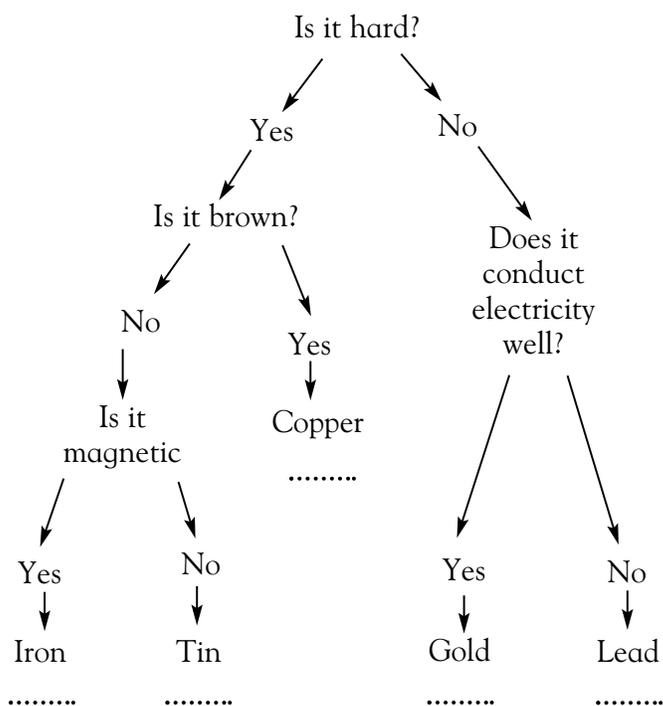
Background knowledge

A metal is a type of matter. Most metals are shiny and *malleable* (can be hammered into shapes), *ductile* (can be pulled into wires), and can conduct heat and electricity. There are different types of metals like iron, copper, gold, lead, and tin. Each metal has a set of additional properties that make it unique. These properties can be used to identify the type of metal. For example, some metals are denser than other metals. *Density* has to do with how much matter can occupy a given amount of space.

Science activity

Use the branching key below to identify each of the five metals in this chart. Write the correct letter for each metal below its name.

Metal	Properties
A	hard; brown in color; good conductor of electricity
B	relatively soft; yellow color; does not rust; very good conductor of electricity
C	soft; silver color; tarnishes quickly; very heavy; weak conductor of electricity
D	hard; silver color; magnetic; tarnishes easily (rusts)
E	hard; silver color; not magnetic; does not tarnish easily



Science investigation

1. Collect 10 small pieces of metal.
2. Create a poster chart to show the properties of each metal and some of their possible uses. You may have to design an experiment to determine some properties.
3. Use a magnet to determine which metals are magnetic.





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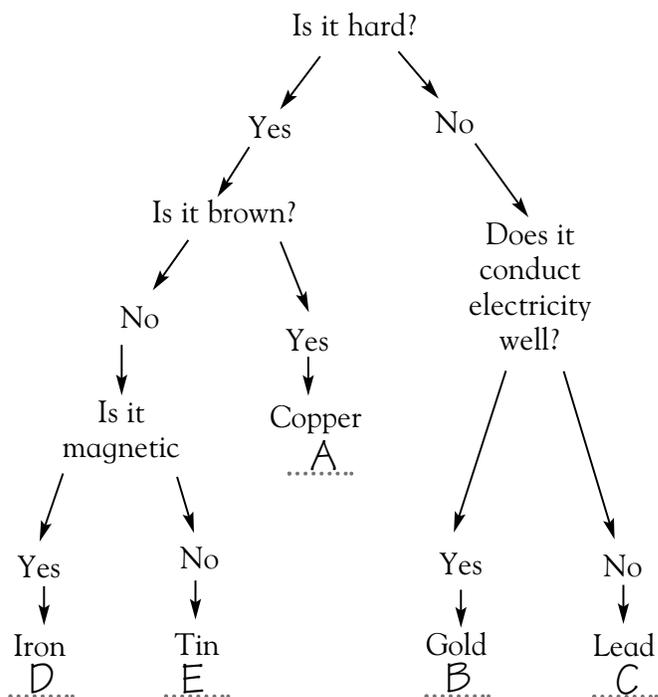
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Samples of metal matter can easily be collected around the home. Broken objects and parts of old toys work very well. Properties such as magnetism, color, luster (ability to reflect light), conductivity, and texture can be tested.

