

# Metals & Non-Metals



The periodic table of the elements is separated into two basic categories: metals and non-metals. The majority of the elements are metals, and they all share many common characteristics.

Take a look at the non-metal elements in the periodic table. Do they have anything in common? Some are gasses, and some are not. Think about how metals differ from non-metals. Write out as many unique properties of metal as you can.

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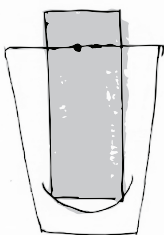
Some metals, such as aluminum (Al), iron (Fe), nickel (Ni), copper (Cu), silver (Ag), and gold (Au), are pure elements; others, such as steel and brass, are composed of a combination of elemental metals. These are called alloys.

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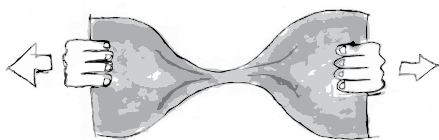
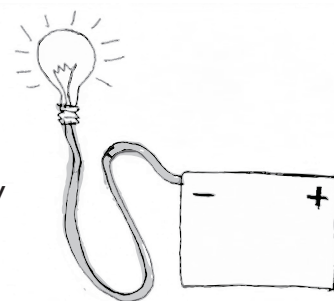
*Answers:*

*The Properties of Metals*

Most metals are solid at room temperature.

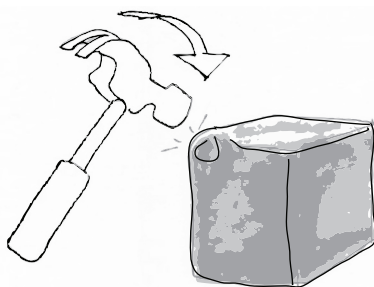
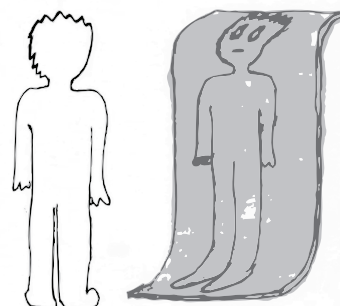


Metals are conductive. This means that electricity and heat can travel through them very easily. Some metals are better conductors than others.



Metals are ductile. This means that they can be stretched—that's how we can make wires!

Metals are shiny and often reflective.



Metals are malleable. This means that they can be bent and molded into different shapes.