Metals, Non-metals, and Metalloids

The three major groups on the Periodic Table are the \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_. Elements within each group have similar physical and chemical properties.

Some of the physical properties used to distinguish between the three groups are:

* \_\_\_\_\_\_\_\_: the ability of a substance to reflect light. Usually the descriptive words are either \_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: the ability of the substance to conduct \_\_\_\_\_\_\_\_. This may be tested with a conductivity meter.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: the ability of the substance to be hammered into sheets without breaking.

Metals are-

* Found on the \_\_\_\_\_\_\_ of the zigzag line on the Periodic Table.
* \_\_\_\_\_\_ conductors of electricity and \_\_\_\_\_\_\_, but some are better conductors than others.
* Metallic looking with a \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_ and can be hammered into sheets without breaking.
* \_\_\_\_\_\_\_\_\_ at room temperature, except for \_\_\_\_\_\_\_\_\_\_\_, which is liquid.

Non-metals are-

* Found to the \_\_\_\_\_\_\_\_ of the zigzag line on the Periodic Table.
* \_\_\_\_\_\_\_ conductors of electricity and heat.
* Not \_\_\_\_\_\_\_ looking, they have a \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ and do not reflect much light.
* \_\_\_\_\_\_\_ when they are solid.
* \_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_ at room temperature.

Metalloids are-

* Are found along the \_\_\_\_\_\_\_ line on the Periodic Table. The only exception is \_\_\_\_\_\_\_\_\_\_\_\_. It is considered to be a \_\_\_\_\_\_\_ even though it lies along the zigzag.
* Has no set characteristics. They \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ of both \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_.
* May be a \_\_\_\_\_\_\_ conductor of heat but are not a metal.
* May have \_\_\_\_\_\_\_\_ like a metal but can be brittle.