



Elements

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Chemistry 4B

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ESSENTIAL QUESTION:

What are elements and how are each one different?

QUESTIONS:

NOTES:

	<ul style="list-style-type: none"> <li>• Those who have similar chemical properties grouped together</li> </ul>
	<ul style="list-style-type: none"> <li>• Symbols are stem from name</li> <li>• Not all symbols originate from English</li> </ul>
<p>What's the difference from vertical columns and horizontal rows?</p>	<ul style="list-style-type: none"> <li>• <u>Vertical columns</u> = group/family *</li> <li>• Each group contains elements w/ similar chemical properties</li> </ul>
	<ul style="list-style-type: none"> <li>• <u>Horizontal rows</u> = Periods *</li> <li>• Physical &amp; chemical properties change somewhat regularly across a period</li> <li>• Elements closer together are more similar than those further apart</li> </ul>
<p>What are the 3 main element groups?</p>	<ul style="list-style-type: none"> <li>• <u>metals</u> are luster (shiny, silvery, gray, yellow)</li> <li>• Solids at room temp. (mercury is only liquid) reddish brown</li> <li>• malleable (hammered or rolled into thin sheets)</li> <li>• Conduct electricity &amp; heat well *</li> <li>• ductile (drawn into a fine wire)</li> </ul>
<p>What's a difference between metals and non-metals?</p>	<ul style="list-style-type: none"> <li>- <u>nonmetals</u> *</li> <li>• non conductive</li> <li>• many are gases</li> <li>• solids are brittle</li> <li>• liquid bromine</li> <li>• poor conductors of heat &amp; electricity</li> <li><u>metalloids</u>: some characteristics of both metals &amp; nonmetals *</li> </ul>

SUMMARY:

An element is everything that makes up the world and each is different so they work together to make new reactions. Vertical columns are groups/families and horizontal rows are periods. The 3 main element groups are metals, nonmetals, and metalloids. The difference between a metal & a non-metal is that metals are conductive and non-metals are non-conductive.