Elements Worksheets

Name __________________________

VOCABULARY
Define.
1. periodic table _______________________________________________________________
_____________________________________________________________________________
2. groups __________________________________________________________________
_____________________________________________________________________________
3. periods __________________________________________________________________
_____________________________________________________________________________
4. metal _____________________________________________________________________
_____________________________________________________________________________

Write true or false for each statement.
1. A nonmetal is a good conductor of heat, but not of electricity. __________
2. A metalloid is an element that has characteristics of both metals and nonmetals. ________
3. Noble gases, found in Group 18 of the periodic table, are highly reactive elements. ________
4. Low conductivity is used to tell metals from nonmetals. __________
5. Tensile strength is a metal’s ability to resist breaking when it is pulled. __________

SKILL BUILDING
1. Explain the difference between the groups and periods on the periodic table.

2. What are the two main types of elements found on the periodic table? Where are those elements located on the table?

MULTIPLE CHOICE – circle the letter of the best answer.
1. Metals have the property of malleability, which means that they
   a. can be drawn into fine wire.
   b. are able to resist breaking when they are pulled.
   c. can be hammered or rolled into thin sheets.
   d. are liquids at room temperature
2. Which statement is true?
   a. Metalloids are metallic elements.
   b. A metal is a good conductor of heat and electricity.
   c. All metals are silver or grayish white.
   d. Metallic elements can be decomposed by chemical changes.

3. How are nitrogen, chlorine, and oxygen the same?
   a. All of them are metals.
   b. They are all good conductors of heat and electricity.
   c. Each is a compound.
   d. All are gases at room temperature.

4. Which statement is true about metalloids?
   a. Metalloids are more malleable than metals.
   b. Metalloids are semiconductors of electricity.
   c. Metalloids are gases at room temperature.
   d. None of the metalloids exist in pure form in nature.

**GRAPHIC ORGANIZER**

<table>
<thead>
<tr>
<th>Element</th>
<th>Group Number</th>
<th>Period Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platinium, Pt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boron, B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xenon, Xe</td>
<td></td>
<td></td>
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<tr>
<td>Zirconium, Zr</td>
<td></td>
<td></td>
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<tr>
<td>Hydrogen, H</td>
<td></td>
<td></td>
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<tr>
<td>Cobalt, Co</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Complete the chart by adding the following elements:**

The element in group 12, period 6
The element in group 17, period 3
The element in group 2, period 7
The element in group 11, period 5