

1. Define "period" in relation to the periodic table.

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2. Define "family" in relation to the periodic table.

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3. For each of the following, use the periodic table to determine the number of valence electrons in an atom of the element.

\_\_\_\_\_ Ne    \_\_\_\_\_ S    \_\_\_\_\_ Mg    \_\_\_\_\_ Sn    \_\_\_\_\_ C    \_\_\_\_\_ Al

\_\_\_\_\_ Te    \_\_\_\_\_ Cs    \_\_\_\_\_ Bi    \_\_\_\_\_ Br    \_\_\_\_\_ Ga    \_\_\_\_\_ P

4. For each of the following, use the periodic table to determine the number of occupied energy levels in an atom of the element.

\_\_\_\_\_ Ne    \_\_\_\_\_ S    \_\_\_\_\_ Mg    \_\_\_\_\_ Sn    \_\_\_\_\_ C    \_\_\_\_\_ Al

\_\_\_\_\_ Te    \_\_\_\_\_ Cs    \_\_\_\_\_ Bi    \_\_\_\_\_ Br    \_\_\_\_\_ Ga    \_\_\_\_\_ P

5. What is meant by the term "metalloid?"

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6. For each of the following, use the periodic table to determine if the element is a metal (M), nonmetal (NM), or metalloid (ME).

\_\_\_\_\_ W    \_\_\_\_\_ S    \_\_\_\_\_ Mg    \_\_\_\_\_ B    \_\_\_\_\_ Ca    \_\_\_\_\_ Ar

\_\_\_\_\_ H    \_\_\_\_\_ Cs    \_\_\_\_\_ Zn    \_\_\_\_\_ Br    \_\_\_\_\_ Sb    \_\_\_\_\_ U

7. For each of the following, use the periodic table to determine if the element is a solid (S), liquid (L), or gas (G) at room temperature

\_\_\_\_\_ Hg    \_\_\_\_\_ S    \_\_\_\_\_ Mg    \_\_\_\_\_ B    \_\_\_\_\_ Ca    \_\_\_\_\_ Ar

\_\_\_\_\_ H    \_\_\_\_\_ Cs    \_\_\_\_\_ Zn    \_\_\_\_\_ Br    \_\_\_\_\_ Sb    \_\_\_\_\_ N

8. For each of the following, use the periodic table to name the family the element belongs to.

\_\_\_\_\_ Fe

\_\_\_\_\_ Al

\_\_\_\_\_ Kr

\_\_\_\_\_ S

\_\_\_\_\_ I

\_\_\_\_\_ Li

\_\_\_\_\_ Ba

\_\_\_\_\_ Bi

\_\_\_\_\_ Eu

\_\_\_\_\_ Si

\_\_\_\_\_ Bk