

Name : _____ Date : _____

Periodic Table Basics

1) Which elements in the periodic table have one valence electron?

2) What do you notice about the number of valence electrons as you move from left to right across a row in the periodic table?

3) What do you notice about the number of energy levels or shells as you move down a group or column in the periodic table?

4) Chemical _____ have similar properties.

5) Noble gases are also called _____ gases because they don't react with other elements.

6) In which family would each of these elements be classified?

Radium - _____

Tin - _____

Iodine - _____

Cesium - _____

7) Write down the number of valence electrons for each of these elements.

Barium = ____ Lead = ____ Bismuth = ____ Potassium = ____

8) What do you notice about the melting points as you move from left to right across a period in the periodic table?

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Periodic Table Basics

Answers

1) Which elements in the periodic table have one valence electron?

Hydrogen Lithium Sodium Potassium
Rubidium Caesium Francium

2) What do you notice about the number of valence electrons as you move from left to right across a row in the periodic table?

The number of valence electrons increases across a row.

3) What do you notice about the number of energy levels or shells as you move down a group or column in the periodic table?

The number of energy levels increases down a group.

4) Chemical bonds have similar properties.

5) Noble gases are also called inert gases because they don't react with other elements.

6) In which family would each of these elements be classified?

Radium - Alkaline earth metal Tin - Carbon family

Iodine - Halogen Cesium - Alkali metal

7) Write down the number of valence electrons for each of these elements.

Barium = 2 Lead = 4 Bismuth = 5 Potassium = 1

8) What do you notice about the melting points as you move from left to right across a period in the periodic table?

The melting point decreases from left to right across a period of the periodic table.