



Families of the Periodic Table
20 Questions

NAME : _____

CLASS : _____

DATE : _____

1. Elements on the periodic table can be grouped into families based on their _____ properties.

- | | | | |
|----------------------------|------------|----------------------------|------------|
| ☐ A | mechanical | ☐ B | physical |
| ☐ C | chemical | ☐ D | electrical |

2. Why is element Hydrogen not included in the Alkali Family?

- | | | | |
|----------------------------|--------------------|----------------------------|--------------------|
| ☐ A | It is a halogen. | ☐ B | It is non-metal. |
| ☐ C | It is a metalloid. | ☐ D | It is a noble gas. |

3. Which family have 1 valence electron that they give up easily.

- | | | | |
|----------------------------|---------------------|----------------------------|---------------|
| ☐ A | Halogens | ☐ B | Noble Gases |
| ☐ C | Alkali Earth Metals | ☐ D | Alkali Metals |

4. What includes the Alkali Earth Metals?

- | | | | |
|----------------------------|---|----------------------------|---|
| ☐ A | Lithium, Sodium, Potassium,
Rubidium, Cesium, Francium | ☐ B | Beryllium, Magnesium, Calcium,
Strontium, Barium, Radium |
| ☐ C | Flourine, Chlorine, Barium, Iodine,
Astatine | ☐ D | Helium, Neon, Argon, Xenon, Krypton |

5. Lanthanides and Actinides belong to what family?

- | | |
|--|--|
| ☐ A Alkali Metals | ☐ B Halogens |
| ☐ C Alkali Earth Metals | ☐ D Transition Metals |

6. Each element in Group 14, the carbon family, has how many electrons in its outer energy level?

- | | |
|---------------------------------|----------------------------------|
| ☐ A two | ☐ B one |
| ☐ C four | ☐ D three |

7. What element is the fourth most abundant element in your body?

- | | |
|-------------------------------------|-------------------------------------|
| ☐ A oxygen | ☐ B carbon |
| ☐ C flourine | ☐ D nitrogen |

8. Which group of elements are very reactive, have 7 valence electrons, and takes an electron from metals to form an ionic compound?

- | | |
|--|--|
| ☐ A Halogens | ☐ B Alkali Metals |
| ☐ C Alkali Earth Metals | ☐ D Noble Gases |

9. What group of elements produce distinctive glows when electricity is passed through it?

- | | |
|--|--|
| ☐ A alkali metals | ☐ B alkali earth metals |
| ☐ C noble gases | ☐ D halogens |

10. The group of element that can able to put up to 32 electrons in their second to last shell.

- | | |
|---------------------------------------|--|
| ☐ A metalloids | ☐ B Noble gases |
| ☐ C halogens | ☐ D transition metals |

11. Oxygen group has how many valence electron?

☐ A

4

☐ B

3

☐ C

6

☐ D

5

12. A _____ may behave as a metal under some conditions, but the same _____ may behave as a nonmetal under other conditions.

☐ A

metalloids

☐ B

noble gases

☐ C

metals

☐ D

non metals

13. Which element that is not a transition metal?

☐ A

Osmium

☐ B

Titanium

☐ C

Radon

☐ D

Gold

14. There are _____ groups and _____ periods in the periodic table.

☐ A

17;6

☐ B

18;9

☐ C

18;7

☐ D

17;7

15. Groups 3 - 12 are called the _____ metals.

☐ A

transition metals

☐ B

alkaline earth metals

☐ C

noble gases

☐ D

alkali metals

16. _____ is known as vertical columns on the periodic table; all elements have similar chemical & physical properties; all elements have the same number of valence electrons

☐ A

noble gases

☐ B

halogens

☐ C

periods

☐ D

groups

17. These elements are known as the "Rare Earths Elements"

- | | | | |
|----------------------------|-------------------------|----------------------------|----------------------|
| ☐ A | lutetium and lawrencium | ☐ B | silver and gold |
| ☐ C | niobium and molybdenum | ☐ D | scandium and yttrium |

18. Which symbol of the element is in the 5th period and group 11?

- | | | | |
|----------------------------|----|----------------------------|----|
| ☐ A | Au | ☐ B | Cu |
| ☐ C | Ag | ☐ D | Al |

19. What part of the element shows the horizontal rows, atomic number increases as you move across a the row?

- | | | | |
|----------------------------|----------|----------------------------|-------------------|
| ☐ A | families | ☐ B | rare earth metals |
| ☐ C | groups | ☐ D | periods |

20. Which of the following element that is a metalloid?

- | | | | |
|----------------------------|-----------|----------------------------|---------|
| ☐ A | Zinc | ☐ B | Argon |
| ☐ C | Germanium | ☐ D | Bismuth |