

Matter

3. Periodic Table

CONCEPT 3

LESSON GUIDE

GROUP 7 - HALOGENS

PRECISE LEARNING POINTS

KNOW

I know how to locate group 7 of the periodic table and can state what type of element they are.

APPLY

I can apply my knowledge to describe the properties of group 7 elements.

EXTEND

I can extend my knowledge to explain patterns in group 7 elements.

NOTES

Elements in group 7 are non-metals and make up the second column in from the right of the periodic table. Elements in group 7 are often called Halogens.

Properties and Uses

Halogen	Appearance	Use
fluorine	pale yellow, highly flammable gas	in a compound, is used in toothpastes and added to some drinking water
chlorine	green gas	as a disinfectant, for example in bleaches and in swimming pools
bromine	brown/orange liquid	in pesticides and in making plastics or as a disinfectant in pools
iodine	grey solid	as an antiseptic, sometimes cleaning skin prior to an operation

Patterns

The melting and boiling points increase as you move down the group. Fluorine and chlorine are gases at room temperature. Bromine is a liquid at room temperature and iodine is a solid.

Reactivity of group 7 elements increases as you move up the group.