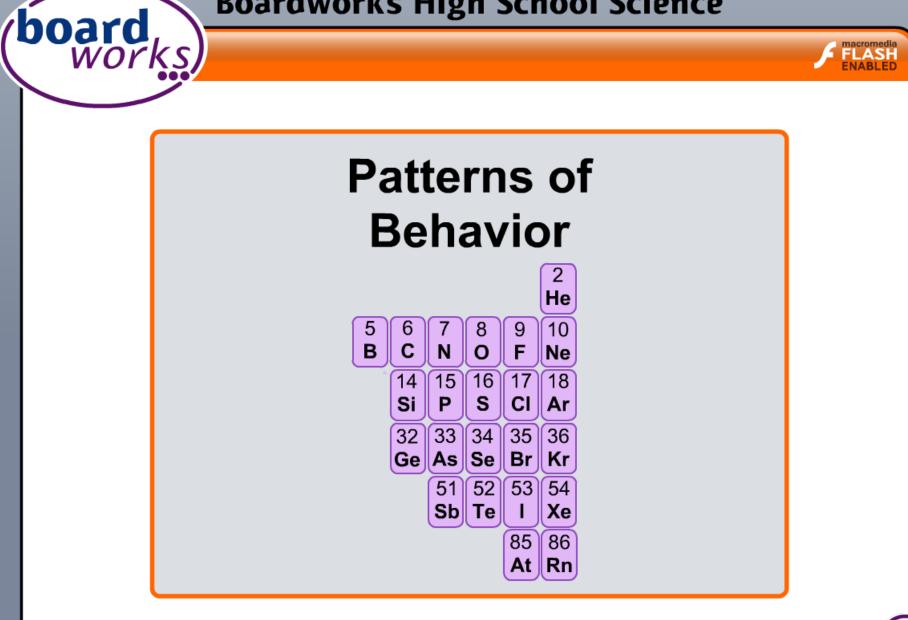
**Boardworks High School Science** 



nacromedia



Where are these **different types of elements** grouped together in the periodic table?

- metals on the left and center
- nonmetals on the right (except hydrogen)
- semi-metals between metals and nonmetals

Semi-metals (or metalloids) have some properties similar to metals and other properties similar to nonmetals.

Can you name a semi-metal element?







© Boardworks Ltd 2009

Where are these **elements of different states** grouped together in the periodic table?

- solids on the left, in the center and on the right
- liquids in the middle and on the right
- gases on the far right (except hydrogen)

Only two elements are liquids at room temperature. What are they?

bromine and mercury



3 of 8

#### Metals to nonmetals, solids to gases



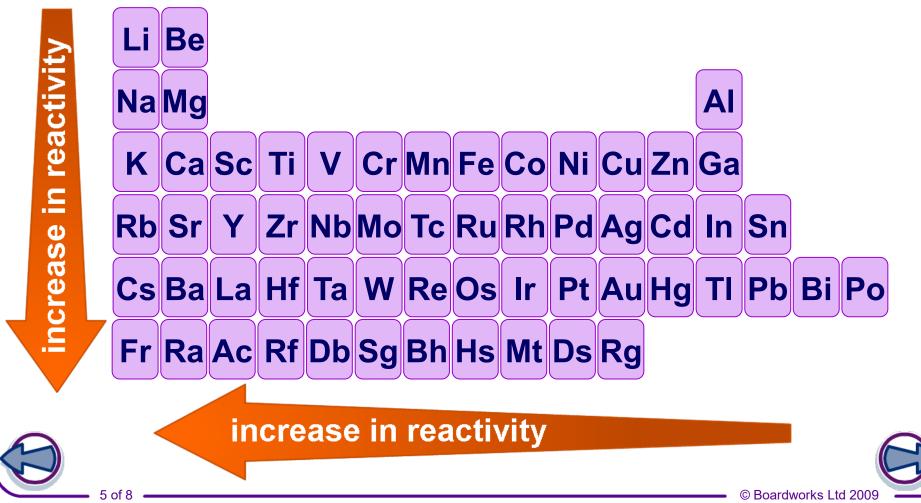




# **Patterns: reactivity of metals**

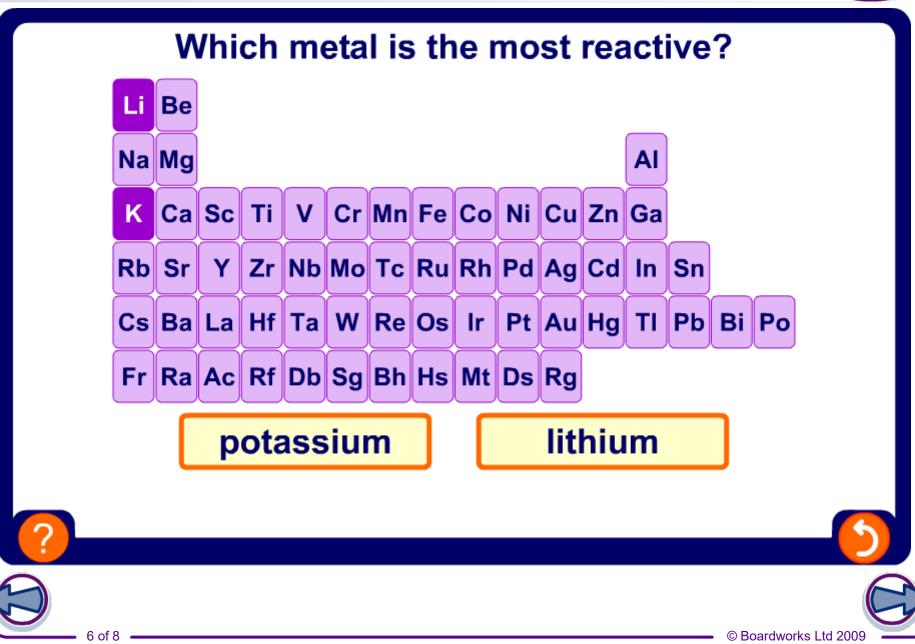
What happens to the reactivity of metals **along a period**? What happens to the reactivity of metals **down a group**? Which is the **most reactive metal**?

boarc



## Which metal is more reactive?





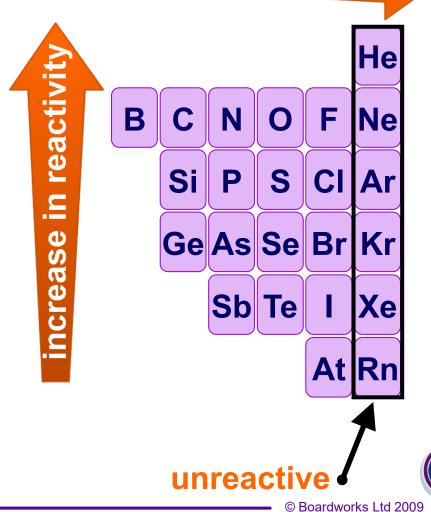
# **Patterns: reactivity of nonmetals**



Group 0 elements are the most unreactive of all elements. They are known as the noble gases. increase in reactivity

For the remaining nonmetals and semi-metals, **reactivity increases** up a group and along a period from left to right.

Which is the most reactive nonmetal/semimetal?





7 of 8

## Which nonmetal is more reactive?



#### Which nonmetal/semimetal is the most reactive?

