

1. What is a **chemical family**? (1)

2. a) The first column of elements in the Periodic Table is called the _____ (1)
b) List 6 element symbols in this family: (2)
c) What ion charge do they all have? _____ (1)
d) Why do they all get that particular ion charge? (2)

e) List three other properties of alkali metals. (3)

3. a) The second column of elements in the Periodic Table is called the _____ (1)
b) List 6 names of elements that belong to this family. (2)

c) What is their ion charge? _____ (1)
d) List 3 other properties of this group of elements. (3)

4. a) The name of the elements in the second-to-last column in the Periodic Table is the _____ (1)
b) List four elements (names) that belong in this family. (2)

c) Are these elements reactive or not? (1) _____
d) What is their ion charge? (1) _____
e) Are the gases of these elements colourless, or do they have colour? (1) _____
f) Are these elements toxic or not? (1) _____

5. a) The last column of elements in the Periodic Table is called the _____
_____. (1)

b) List the symbols for 6 of the elements in this family. (2)

c) Are these elements reactive or not? Explain why!!! (2) _____

d) List 4 other properties of the elements in this family. (4)

6. Use the clues to decide which family I'm talking about! There may be more than one right answer (and if so, list all possibilities).

Clue	Chemical Family Alkali Metals, Alkaline Earth Metals, Halogens, Noble Gases
Very reactive in water	
Colourless gas	
Soft enough to cut with a knife	
Have an ion charge of +2	
Never react!	
Toxic	
Do not form ions	
Hard	
Magnesium	
Helium	
Sodium	
Chlorine	
Very reactive	
Coloured gases	
Non-metals	