

Formation of ions

1) Explain why the sodium atom has a larger radius than the sodium ion.

2) Explain why the chloride ion has a larger radius than the chlorine atom.

3) Explain why metals tend to lose electrons and form positive ions and non-metals tend to gain electrons and form negative ions.

4) Determine the ions formed by the following atoms:

a) Cs

f) I

b) Be

g) Ba

c) Cl

h) Al

d) N

i) O

e) S

j) K