

3  
Li  
Lithium

11  
Na  
Sodium

19  
K  
Potassium

37  
Rb  
Rubidium

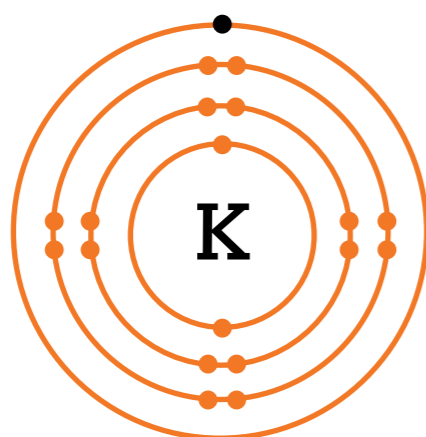
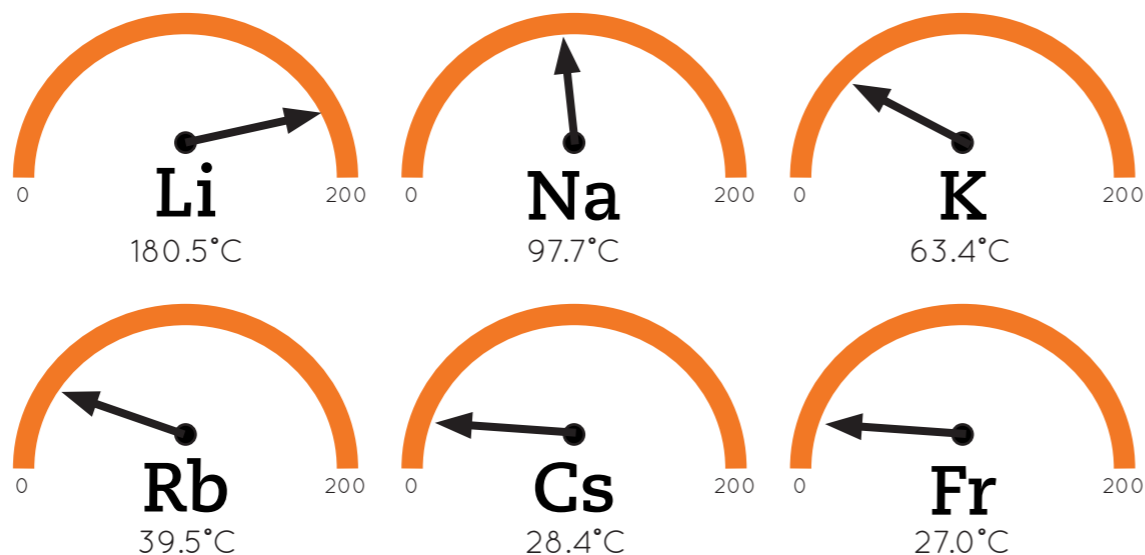
55  
Cs  
Caesium

87  
Fr  
Francium

# Group 1 - The Alkali Metals

THE GROUP 1 ELEMENTS ARE SHINY, SOFT, AND HIGHLY REACTIVE METALS, NONE OF WHICH OCCUR NATURALLY AS FREE ELEMENTS

## MELTING POINTS



ALL  
OF THE  
GROUP 1 METALS  
HAVE  
**ONE**  
VALENCE ELECTRON

THE REACTIVITY OF THE GROUP 1 METALS **INCREASES DOWN THE GROUP** AS THE OUTER ELECTRON GETS FURTHER FROM THE NUCLEUS & BECOMES EASIER TO REMOVE

THE ALKALI METALS REACT WITH WATER TO FORM **METAL HYDROXIDES**

LiOH

NaOH

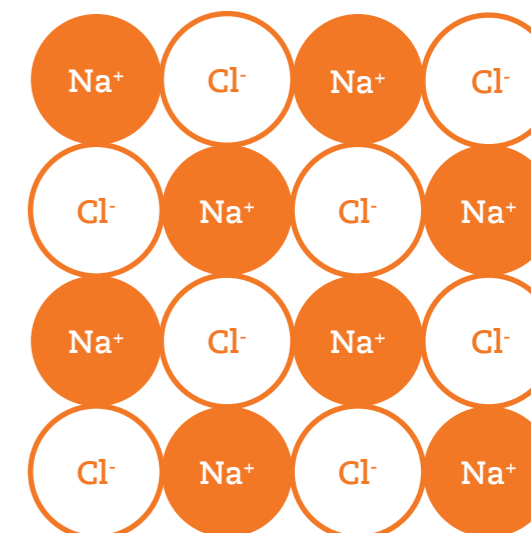
KOH

RbOH

CsOH

ALKALI METALS REACT WITH **OXYGEN** TO FORM **METAL OXIDES**

ALKALI METALS REACT WITH **HALOGENS** TO FORM **IONIC SALTS**



## USES OF THE ALKALI METALS



LITHIUM

ANTI  
DEPRESSANTS  
BATTERIES



SODIUM

STREET LAMPS  
TABLE SALT



POTASSIUM

FERTILISERS  
SOAPS



RUBIDIUM  
& CAESIUM

ATOMIC  
CLOCKS



FRANCIUM

RADIOACTIVE