

# ALLOY & ITS IMPORTANCE

ALLOY IS A MIXTURE OF TWO OR MORE ELEMENTS WHERE THE MAIN ELEMENT IS METAL

## EXAMPLES & PROPERTIES

### DURALUMIN

- stronger than pure aluminium
- low density
- does not rust

#### COMPOSITION

93% Aluminium  
3% Copper  
3% Magnesium  
1% Manganese

\*used to make  
aeroplane body



### BRONZE

- stronger than pure copper
- does not rust
- shiny

#### COMPOSITION

90% Copper  
10% Tin

\*used to make  
medals



### BRASS

- stronger than pure copper
- does not rust
- shiny

#### COMPOSITION

70% Copper  
30% Zinc

\*used to make keys



### STEEL

- also known as carbon steel
- stronger and harder
- malleable
- has three type of steel

#### COMPOSITION

98% Iron  
0.2-2% Carbon

\*used to make body  
of cars



### STAINLESS STEEL

- stronger than pure iron
- resistant to corrosion

#### COMPOSITION

73% Iron  
18% Chromium  
8% Nickel  
1% Carbon

\*used to make  
cutlery



### PEWTER

- stronger than pure iron
- does not rust
- shiny

#### COMPOSITION

95% Tin  
3.5% Antimony  
1.5% Copper

\*used to make  
souvenirs

