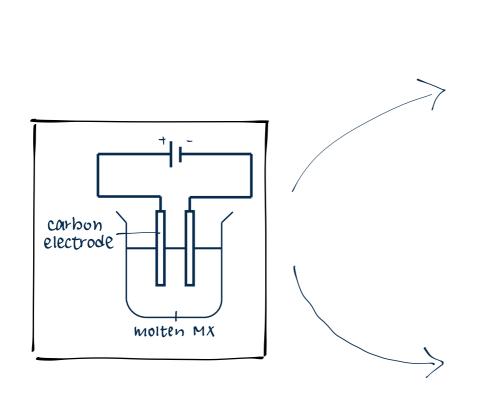
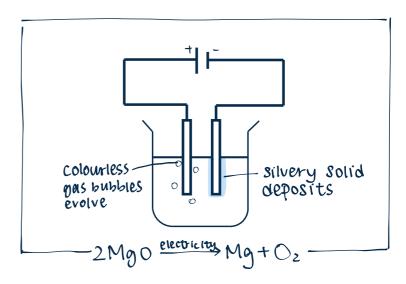
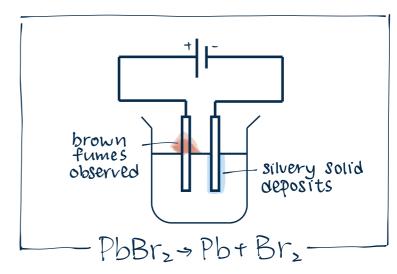
## Extraction of metals

## Reactive metals

- 钾钠钙镁铝
- 需要很多能量才能分开 > electrolysis of molten MX non-metal







## 2 Less reactive metals

- 锌铁钖铅铜
- 不需要那么多能量就能被分开 > carbon reduction
- burn W/ C/CO/H2~有时候可以, towngas = mainly H2
- reabx
  - $> M^{n+} \rightarrow M$
  - > C/CO > CO2 / H2 > H20)
- 什么时候可以用 Hz? reactaint product > R.A. Strength: Hz > metal (强出弱)
  - > metal reactivity series: ... 锌铁钖铅氢铜...

## 3 Unreactive metals

- 汞银金
- 只需-点能量就能被分开→repulsive force
- 用火烧