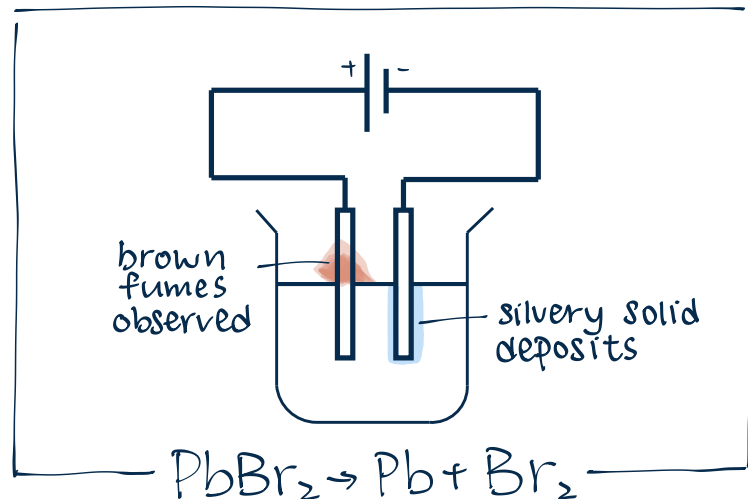
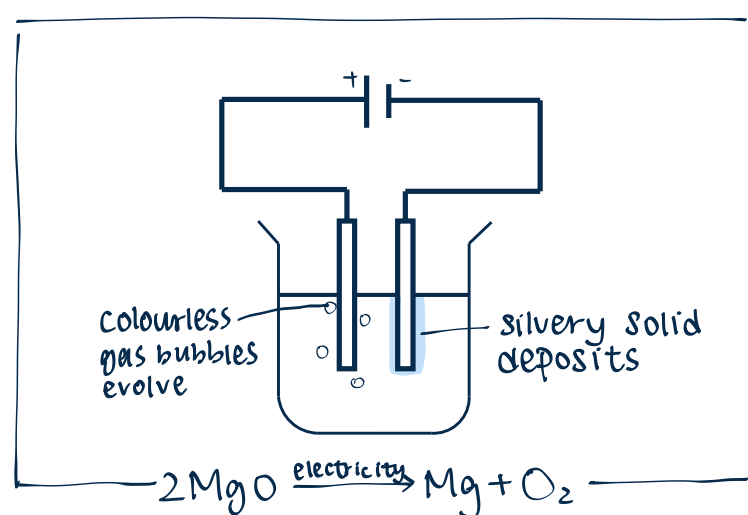
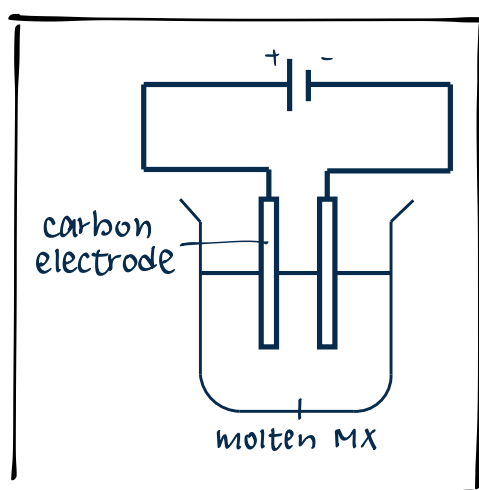


Extraction of metals

1 Reactive metals

- 钾钠钙镁铝
- 需要很多能量才能分开 \rightarrow electrolysis of molten $\overset{\text{metal}}{M}\overset{\text{non-metal}}{X}$



2 Less reactive metals

- 锌铁锡铅铜
- 不需要那么多能量就能被分开 \rightarrow carbon reduction
- burn w/ $\text{C} / \text{CO} / \text{H}_2$ \leftarrow 有时候可以

3 Unreactive metals

- 汞银金
- 只需一点能量就能被分开 \rightarrow repulsive force
- 用火烧