

Extraction of zinc:

ore: zinc blende ZnS

method: reduction by C, CO

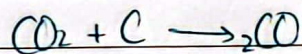
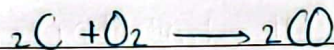
place: blast furnace

C, CO and H_2 can only reduce the less reactive metal from its oxide

Step 1: Roasting with hot oxygen



Step 2: $C + O_2 \longrightarrow CO_2$



Temp inside furnace $1500^\circ C$

and b.p of zinc is $907^\circ C$

→ so it produced as pure gas must condense.

and other impurities since they have high b.p stay in the furnace.
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