

1. Read the question and the student's answer carefully.
2. Use the mark scheme to award the student a number of marks and annotate their answer with suggestions to improve.

Stretch: Rewrite the answer to show how it should be done!

Question:

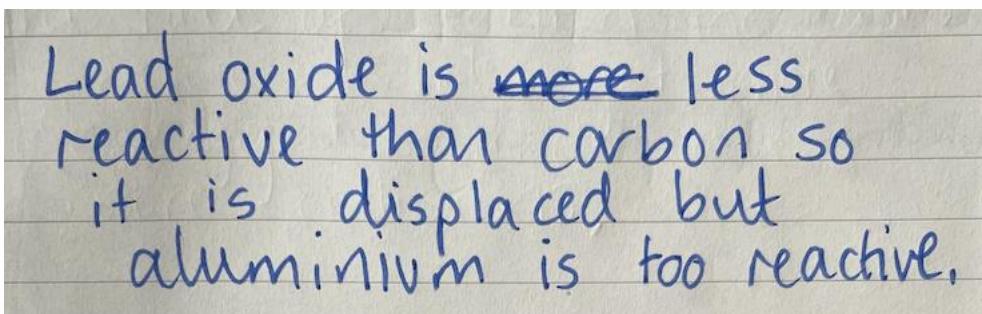
A student tried to extract lead and aluminium from their ores by heating lead oxide and aluminium oxide with carbon in a fume cupboard.

They were able to obtain lead from lead oxide but not aluminium from aluminium oxide.

Explain why.

(3)

Student answer:



Lead oxide is ~~more~~ less reactive than carbon so it is displaced but aluminium is too reactive.

Marks awarded= _____

Mark scheme:

Answer	Mark
Lead is below carbon in the reactivity series Allow converse statement Do not allow lead oxide	1
Aluminium is above carbon in the reactivity series Allow converse statement Do not allow lead oxide	1
Carbon can displace lead (from its oxide) but not aluminium	1