

## Task #80575

I have been asked whether they're oxidised or reduced when reached with hydrochloric acid, using oxidation states for;

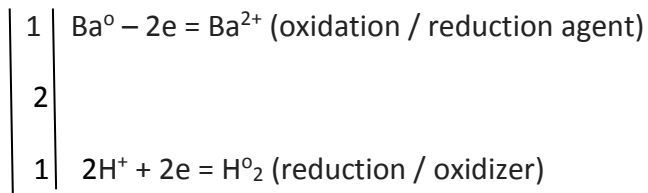
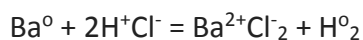
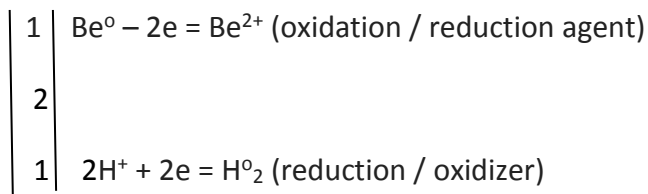
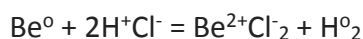
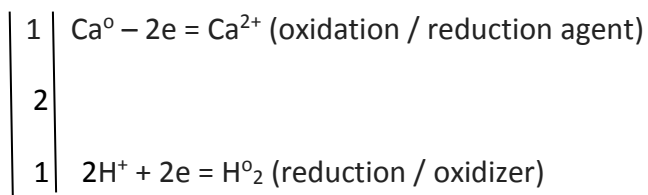
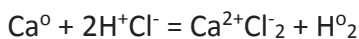
- Calcium
- Beryllium
- Barium

### Solution.

Oxidation is the process by which the reducing agents give up electrons. As a result, the degree of oxidation of the ion rises.

Reduction is the process by which oxidants take on electrons. As a result, the oxidation state of the ion decreases.

Calcium (Ca), Beryllium (Be), Barium (Ba) – metals (typical reducing agents).



### Answer:

All of the above substances are reducing agents or oxidize.

