Candidate evidence

Question 5

Candidate 1

Acid + Bere -> salt + water

Acid + Bere -> salt + water

Acids are sour.

Non-metal oxides dinsbe in water

to form acids.

Candidate 2

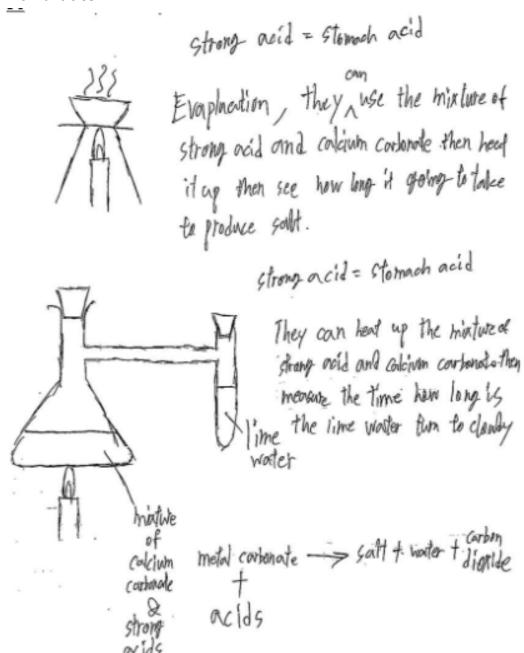
pH paper universal indication

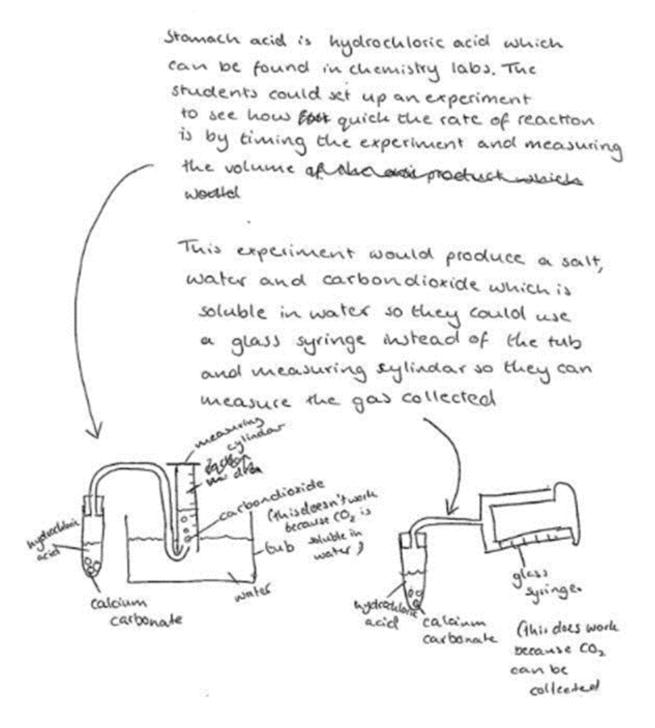
metal + alkali -> acid

The students could test the pit of the tablets and if they were above 7 then it would be effective.

· If the person is feeling better the next day.

· Whether the tablet





calcium carbonate is a base, Herefore it can neutralise an acid.

neutralisation is when an acid and a base neutralise each other toformaph of 7:

The students could use a titration experiment to calculate which tablet if better at neutralising an acid.

They could react each tablet with the same volume of acid and time how long it took to neutralise using a stopwatch. Then using pH paper they would test the pH of the solution ofter the tablets have reacted with the acid.

They would match the colour of the pH paper with the PH scale and if the paper is green then it has a neutral PH of 7.

The experiment could be repeated multiple times and whichever tablet reacted * to form a \$PH of 7 would be the most effective

1. Manne out the sene colone of aid 1, at a sure and accurate concentration + pH buil.

2. Manne out 55 of the styre of independing tallt.

3. All h 55 of tablet into the 1 stouch and.

Vlen to rectain his stopped, while neurone to PH of to solding and compare to to original pH of the struck acid.

4. Repeat using second bound or independing the tallt.

5. Compare results in order to establish which broad in more expective at neutralising stometh acid.

(The closer to PHT, the non expective the independent tablets are.)

Question 13

Candidate 1

A redox to reaction is when an atom takes electrons from another atom to get closer to its nearest group 1 or group 7. The reagon its asso a reduction reaction is because one of the atoms electrons is being reduced.

Redox reactions are colled redox because the have an exidation and reduction reaction a reduction reaction is the gain of electrons from an ion.

And an exidation is the loss or electrons from ions

Candidate 3

writen redox enrecations dont have

Candidate 4

(social electrons) and one is being reduced (to gaining electrons). One element becomes an ion and the other becomes an atom.

electrolysis is a redox reaction

e.g. # 1

Natagy+ Clagy > Na(s) + Clag)

To make an electrochemical cell there is always a redox reaction going on e.g. a cell with Mg and Cu:

Mg + Cu2+ -> Mg 2+ + Cu

- it shows how exections gain and use
- combiner reduction and oxidation reaction
- when an element is oxidised it loses electron to become positively characted
- When reduction hoppens, an element gains electrons to become regatively charged

- Equation needs to be balanced oxidation

- (Opper 1058) 2 electrons to manage of 2+

 $K^+ + e^- \longrightarrow K$

Porms an Ion It is oxidation

Li -> Li+ +e

- When a non-metal forms an lan it o reduction

redov

K++Li-> Li++K

oxigation and rearreston reactions

HODELL WORD O LEODY LEODY LOU

CONTRACTOR COMPANIES

ciement loss elections to a less

an exidention and the gain of electrons
is called a reduction reaction.

au onerall regox ednaylou.

Obligation and regniction reactions

ednations can be comprised to worke

ednations can be obtitued.

examble

oxidation (loss of electrons);

M9 -> M92+ + 2e-

reduction (gain of electrons)

MIS++SE--> Ni

[END OF QUESTION PAPER]

(electrous are conceiled ent) Wd + N!s+ -> Wds+ + N!