



basic education

Department of
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

SUPPLEMENT 13

DISCIPLINARY PG

NOVEMBER 2014

GRADE: 12

TIME: 150 minutes

QUESTION

DISCIPLINARY PG

GRADE 12 DISCIPLINARY PG	121	122	123	124	125
QUESTION 1					
QUESTION 2					
QUESTION 3					
QUESTION 4					
TOTAL	121	122	123	124	125

This question paper consists of 12 pages and
10 pages for rough work and calculations.

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Lei Shi

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web for reactions involving acetic acid or ammonia the measured enthalpy change of neutralization is a few kJ less exothermic than with strong acids and bases for example one source which gives the enthalpy change of neutralization of sodium hydroxide solution with HCl as 57.9 kJ mol⁻¹

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web the enthalpy change of neutralisation is defined as the enthalpy change when solutions of an acid and alkali react together to produce one mole of water for example HCl(aq) + NaOH(aq) → NaCl(aq) + H₂O(aq) you can see that one mole of water is produced when one mole of HCl or one mole of NaOH reacts