COURSE & SECTION NO.

## piscussion:

Assumptions made in this
experiment were that the
system was isolated and that
no extra heat from the
surroundings could have ah
effect on the reaction (which
is why the calorimeter was
also placed in a beaker of ice.
H was also assumed that
the change in enthalpy of
the ice is equivalent to the
change of enthalpy for the
reaction.

Mg15) + 2 H30 Trag) - Mg 2 Tag) + Hz (g) + 2 Hz 0/9)

To find the change of enthalpy of reaction A Hsurrounding - DHsystern was used. Using - the calorimeter, the volume change could be found once the exothermic reaction metred the 10. Ice has a lower density than water, soil occupies groater volume (donsily 15 inversely related to volume) By moasuring the change in volume, the mass of ice that meltod could be found, allowing us to change in entholpy of ice

could have been the air bubbles

in the colorimeter, outside hoar, and perhaps an incomplete reaction, small polices of ice were used in the calorimeter, leaving spaces between them which ware filled with water. This was stirred to minimile air bubble bubbles could have but soms remained. This would have external hearto affort the change in volume. When external heat has an affect, ice may melt, loworing the volume more than the heat of reaction would. This could also happen is the isolating beaker of ice had air bubbles or it they wors handled roomuch. Also, the roaction might not have completed, which would give a lower enthalpy.

## conclusion

The change of the enthalpy of reaction was -168 kg I rood.

SIGNATURE

DATE

WITNESS/TA

DATE