

Table 3: Two way ANCOVA Results for achievement scores of SS2 students in the Guided Discovery and Expository groups with respect to gender in the MATA.

Source of variation	Sum of squares	D F	Mean of squares	F.cal.	F. crit	Decision
Covariate(pre test)	8.825	1	8.825	0.229	0.585	
Main effect	28494.157	2	14247.079	483.253	3.840	S
Gender	5074.190	1	5074.190	172.114	3.840	S
Method	24383.541	1	24383.541	827.077	3.840	S
Method Gender	397.752	1	397.752	13.492	3.840	S
Explained	4569.647	4	8411.488	285.313	3.840	
Error	4569.647	155	29.482			
Total	38216.100	159	240.350			

Where S= significant at 0.05 level of probability for the hypotheses.

Table3 shows that the calculated F-ratio due to guided discovery and expository methods is 827.077 while from F distribution statistics table, the value of the critical F- statistic at the 0.05 probability level (1 and 155) degrees of freedom is 3.840. The F- calculated (827.077) is greater than the F-Crit.(3.840) at an alpha level of 0.05. The decision rule is to reject the null hypothesis