This study is aimed at improving grade XI Science students’ writing achievement by applying Dictogloss Technique. The research was conducted by applying classroom action research. The subject of this study was Grade Private XI Senior High School PAB 4 Sampali which consisted of 25 students. To collect the data, the instruments used were primary data (writing test) and secondary data (interview, observation sheet, and diary note). Based on the data analysis, it was found that the students’ score improved; it can be seen from the score in orientation test, Cycle I test and Cycle II test. In the orientation test, the mean of the students’ score was (50.6), in the cycle I test was (59.4), and the mean of students’ score of the last test was (67.2). Based on the interview, observation sheet, and diary note, it shows that expression and excitement of the students were also improved. It was found that teaching of writing analytical exposition text by applying Dictogloss Technique could improve students’ writing achievement. It is suggested that English teachers apply this strategy as one of the alternative strategy in teaching Writing.