

## EXAMPLE TITLE

We are three 6th year students in EXAMPLE College, ANY TOWN. We are hoping to compete in the Senior Chemical, Physical and Mathematical section with a physics project. Our project is based on the alleviation of the ringing in your ears by the use of low frequency tones. This complaint is commonly referred to as tinnitus.

While developing our idea we began to think of problems that we experience in daily life. We found that ringing in our ears, especially after attending a concert or disco, was a major discomfort for us and many others. We researched this ailment and its physical effect on the ear. After reflecting and hypothesising we felt that low frequency tones may alleviate this problem, as biologically it made sense. We carried out our preliminary testing after consulting with the Audiology department in ANY TOWN General Hospital, so as to adhere to all relevant health and safety guidelines. We discovered that, after exposure to loud noise, the discomfort was alleviated by the tones and, in fact, that hearing ability had increased around 100 times back to its original capacity. As we are now in 6th year we had to complete the vast majority of our project throughout the remainder of 5th year and over the summer holidays. So at this point in time we have finished our testing and analysed our results. One element of our conclusion is that after exposure to loud noise, the hearing ability of candidates improved drastically after a few minutes of our low frequency therapy.

We have examined the future implications of the alleviation of tinnitus by low frequency tones and we feel that our results could change elements of society for the better. For example these tones could be played after a concert to soothe the discomfort of the audience before they leave the venue and thus, aid health and safety measures for departing premises.

We think that our project would arouse interest in physics and illustrate the applicability of basic physics principles in everyday life.

Finally we are extremely interested in our subject matter and physics in general, with most of us considering studying physics at third level. We would love to display our findings to the public in January.

We sincerely hope you will consider our project favourably and allow us to compete in the BT Young Scientist Competition 2009.

Thanking you in advance,