



STELLA MATUTINA GIRLS' HIGH SCHOOL, TAIWAN

Air Condition in Building

— *Joanne, Rose, Jolly, Sandy*

Stella Matutina Girls' High School is an eco-friendly high school, where teachers and students protect environment by daily lives, such as using newspaper instead of plastic bags when lining waste bin to contain rubbish.

In Taiwan Government's Policy about Energy Saving and Carbon Reduction, the goal of both economic development and environmental protection is to enhance the quality of life, and there is no conflict between the two. Such as Peitou Public Library - The First Green Library in Taiwan and Fu-bon Fu-An Memorial Building.

In our experiment we used boxes to represent houses and made holes representing windows. First, we wish to come up with a diagram about the relation for the temperature and the number of holes. Second, we covered the boxes with six materials, hoping to have different statistics for each material. Last, we added plants to our boxes to see if the temperature in the box would decrease.

In our first experiment (different holes), we find out that the more holes we open, the less the temperature will be. In our second experiment (different materials), the result shows that the material of blue paint has lowest temperature outdoor with plastic the highest. However, houses nowadays are made of cement and the statistics above showed that it doesn't help cooling down the house. Therefore, to lower the temperature in the house, we encourage everyone to not only open the windows but have their houses painted blue or white.