

Annex 7 : Student's Worksheet On Garbage Enzyme

PowerPoint / Video project

Title: Garbage Enzyme
Dates: 20th February 2012 – 20th May 2012
21st May 2012 onwards (diluting and finding out advantages)
25th June 2012 and 27th June 2012 (presentation)

Preparation dates: 11 Science 1 – 20th February 2012 (1:00 – 2:00 p.m.)
11 Science 2 – 21st February 2012 (2:30 – 3:30 p.m.)
11 Science 3 – 20th February 2012 (2:00 – 3:30 p.m.)

Presentation dates: 11 Science 1 – 25th June 2012 (1:00 – 2:00 p.m.)
11 Science 2 – 27th June 2012 (1:00 – 2:00 p.m.)
11 Science 3 – 25th June 2012 (2:00 – 3:30 p.m.)

Group: A group of 4 to 5 students (Choose your team mates)

Prize: Top group from each class

Description:

1. Your group must make the garbage enzyme
2. Find out the benefits / uses of the garbage enzyme and must actually carry out at least 3 uses.
For example, it can be used as a bleacher or as fertilizers or remove the stain from birds' droppings, when diluted, HOW? and WHY?
[VIP – Scientific explain please – Especially microorganisms involved, processes involved such as fermentation, products formed, etc.]
3. You must check the pH at least once a week, plot a graph after that.
4. Your PowerPoint presentation (can include video) will be for 10 minutes
5. Slides should include:-
 - Introduction
 - Materials
 - Methodology
 - Benefits / Uses with scientific explanation
 - MUST include marketing ideas, HOW are you going to convince the public to use it?
 - Any disadvantages?

Note:

1. Throughout this project, must give feedback with Miss AG or Madam Susie.
2. Other teachers who you can interview or ask questions will be Ck Salmiah, Ck Hjh Nurliyana and Ck Hj Metusin.
3. The container to be used must be about 1 foot diameter, see through plastic container. MUST LABEL date of manufacture, group name and class.
4. Storage place can be at the back of your classroom for daily stirring. During March school holiday, can keep in 3R room.

