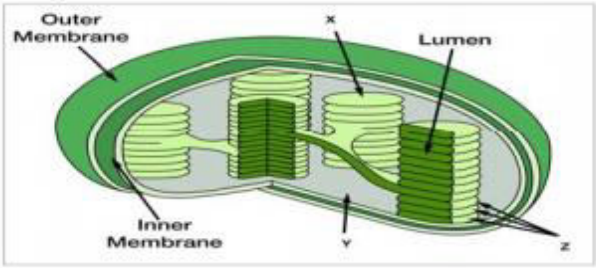
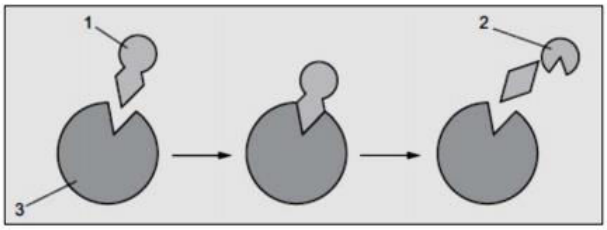
SUVA SANGAM COLLEGE
YEAR 12
BIOLOGY
WORKSHEET 6

1. Photosynthesis occurs in the cell organelle shown below.



(i) Name this cell organelle.
(ii) Identify which reaction that occurs in Part **Y** and Part **Z.**
(iii) In the reaction that occurs in Part **Z**, there are three important steps. Identify the three steps and describe step 1.
(iv) Explain how an increase in the amount of carbon dioxide concentration will increase the rate of photosynthesis.

2. The diagram below shows the Induced Fit Model of enzyme action.



(i) Briefly explain the model in terms of enzyme substrate activity. Include in your discussion the names for structures 1, 2, 3.
(ii) Is the above reaction, a **condensation** or **hydrolysis** reaction.
(iii) Give a reason for the answer given in (ii) above

3. (i) Give **one** reason why it is important to include more **unsaturated** fats in our diet.

(ii) State **two** functions of proteins.

(iii) What is a **chitin**?