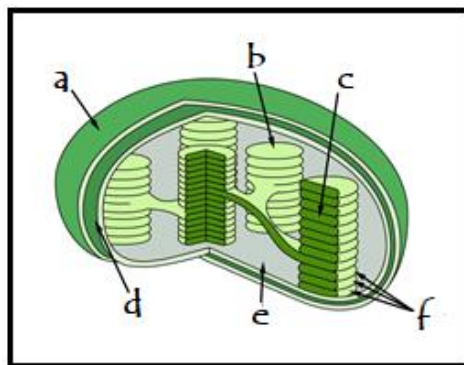


**MINISTRY OF EDUCATION, HERITAGE AND ARTS  
YEAR 12 BIOLOGY  
REVISION WORKSHEET 2**

Write the answers to the following questions in your exercise/activity books.

**Photosynthesis**

1. In about 120 words:
  - a. define photosynthesis and briefly state the roles and effects of the following on the process – water, chlorophyll and carbon dioxide. **(8 marks)**
  - b. describe **two differences** between the light and dark reactions of photosynthesis. **(8 marks)**
  
2. Study the diagram of the chloroplast given below and fill in the table with the correct information. **(12 marks)**

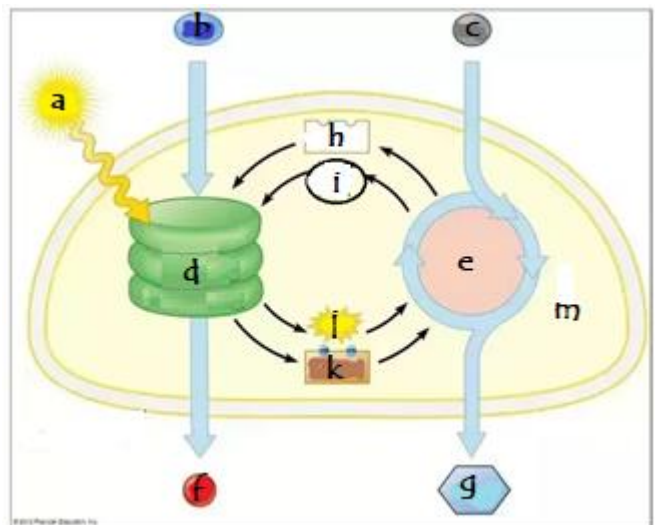


Source: <https://www.pinterest.com/iamchloroplast/saved/>

For each part (a-f), write the **name** and **function**.

3. The diagram given below shows the process of photosynthesis. Use it to answer the questions that follow.

- a. Match the following labels to the letters in the diagram: Calvin Cycle, ATP, NADPH, Light, Light reaction, Oxygen, Water, carbon dioxide, PGAL (sugar), chloroplast. **(5 marks)**
- b. Briefly outline the processes in the **Light reaction**, including where it happens and the products of the reaction. **(3 marks)**
- c. Briefly outline the processes in the **Dark reaction**, including where it happens and the products of the reaction. **(3 marks)**
- d. Write the overall equation for photosynthesis. **(2 marks)**



Source: <https://byjus.com/biology/photosynthesis/>

**The End**