

SANGAM S K M COLLEGE-NADI
YEAR 12 BIOLOGY WORKSHEET SOLUTIONS

WEEK 3

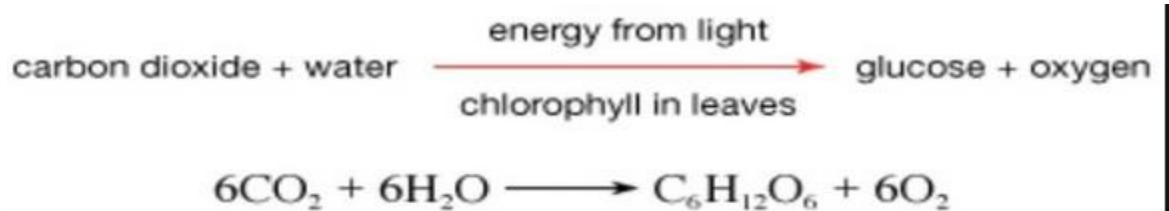
1. **a-chlorophyll**

b- granum

c- thylakoid

d- stroma

2.



3.

- **Splits water molecules**
- **Energies electrons**

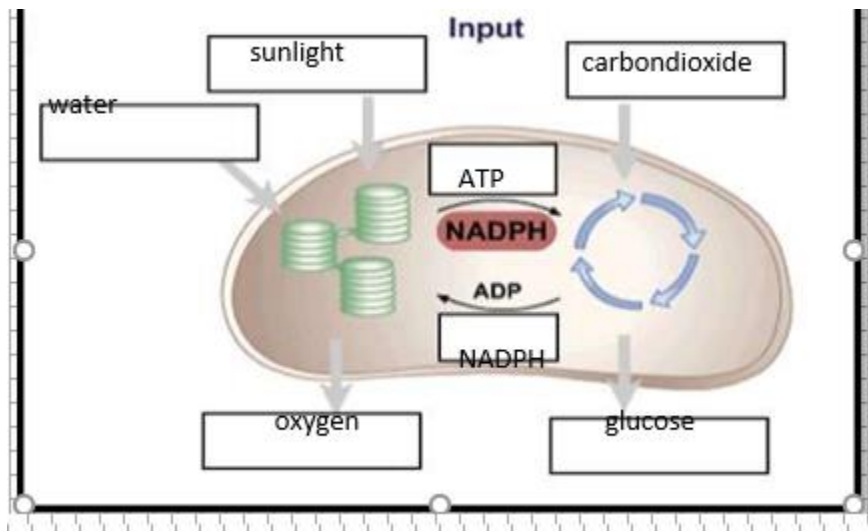
4. Complete the table given below.

Reaction	Where does it take place in the chloroplast	Reactants	Products
Light Reaction	Thylakoid membrane	Water	Oxygen ATP electrons
Dark Reaction	Stroma and cell cytoplasm	Carbon dioxide Hydrogen ATP	Glucose

5. **ATP – contains 3 phosphates**
ADP – contains 2 phosphate.

6. **Increase in the carbon dioxide concentration will also increase photosynthesis since carbon gets incorporated as carbohydrate (C₆H₁₂O₆).**

7.



8. Acts as electron taxi to carry electrons to dark reaction.

9.

- 1- Inner membrane
- 2- Outer membrane
- 3- Matrix
- 4- Cristae

10.



11.

- carbon dioxide
- ethanol

12. Increases surface area to volume ratio inside the organelle.