

Name : _____

Photosynthesis - Review

1) Define light reaction.

2) What is dark reaction?

3) Complete the following chart.

	Light Reactions	Dark Reactions
Location		
Reactants		
Products		

4) List any three differences between light and dark reactions.

Light Reactions	Dark Reactions

Photosynthesis - Review

1) Define light reaction.

The light-dependent reaction is the first stage of photosynthesis. It uses light energy and takes place in the thylakoid membranes of the organelles called chloroplasts.

2) What is dark reaction?

Light-independent reaction is the second stage of photosynthesis. It converts carbon dioxide and other compounds into glucose. It occurs in stroma.

3) Complete the following chart.

	Light Reactions	Dark Reactions
Location	Thylakoid	Stroma
Reactants	Sunlight + H₂O	ATP + NADPH + CO₂
Products	ATP + NADPH + O₂	Sugar

4) List any three differences between light and dark reactions.

Light Reactions	Dark Reactions
This is a light-dependent reaction.	This is a light-independent reaction.
Light is absorbed and O₂ is released.	CO₂ is absorbed and reduced.
ATP and NADPH are the end products.	Uses the end products of light reactions to produce glucose.