

Photosynthesis

Biology

The two stages, and what each one produces.

The two stages within the chloroplast.

Stage	Location	Produces
Light-dependent	Thylakoid membrane	ATP, NADPH, O ₂
Photolysis	Thylakoid	Splits water; source of the O ₂
Calvin cycle	Stroma	Glucose, from CO ₂
Rubisco	Stroma	Fixes CO ₂ to RuBP

The oxygen released comes from water, not carbon dioxide. Isotope labelling established that, and it is a standard exam point.