Q1: What is the overall chemical equation for photosynthesis?

A1:  $6H_2O + 6CO_2 + Light Energy \rightarrow C_6H_{12}O_6 + 6O_2$ 

Q2: What are the reactants (inputs) of photosynthesis?

A2: Sunlight, water (H2O), and carbon dioxide (CO2)

Q3: What are the products (outputs) of photosynthesis?

A3: Glucose ( $C_6H_{12}O_6$ ) and oxygen ( $O_2$ )

Q4: In what plant organelle does photosynthesis occur?

A4: Chloroplasts

Q5: What is the role of chlorophyll in photosynthesis?

A5: Chlorophyll is a green pigment that absorbs light energy, initiating the process of photosynthesis.