

Delivery Plan (Weekly Syllabus)

Week	
Week 1	The plant cell, its components, fu
Week 2	Types of solutions, their concentrations, solute and solvent
Week 3	
Week 4	Water potential,
Week 5	The importance of water – physical properties
Week 6	
Week 7	
Week 8	Transpiration – Estimating the coefficient and rate of transpiration – The mechanism of
Week 9	Transport by phloem – components of phloem tissue – the most important transported mat
Week 10	The process of photosynthesis, the source of the oxyg
Week 11	Dark reactions phase (methods of CO ₂ fixation) C ₃ plants and C ₄ plants and factors affecting
Week 12	The process of respiration – importance – the first stage of respiration and t
Week 13	The Krebs cycle, the electron transport chain, and cal
Week 14	Energy trans
Week 15	Growth regulators – types –
Week 16	

فسلجة نبات عملي

Delivery Plan (Weekly Lab. Syllabus)

week	Material Covered
Week 1	and solutions preparation Learn about Laboratory equipment
Week 2	Microscopy and cell examination – using an optical microscope – types of microscopes
Week 3	Detection of some substances in the cell such as carbohydrates, proteins and oils – how to separate some parts of the cell such as the nucleus and mitochondria
Week 4	Experiments on applying the rules of diffusion, membrane permeability and imbibition
Week 5	Explaining osmosis, osmotic pressure, and plasma
Week 6	Experiments showing water transport in wood and root pressure
Week 7	Study of stomata and the process of transpiration
Week 8	Explain the process of phloem transport
Week 9	Study of the photosynthesis apparatus
Week 10	The relationship of vegetative growth to light and leaf area measurement
Week 11	Detecting the presence of starch resulting from the photosynthesis process in leaves
Week 12	Extraction and estimation of plant pigments
Week 13	Some experiments indicating the process of respiration in plants
Week 14	The most important applications of growth regulators in agriculture
Week 15	Practicing the process of plant tissue culture in vitro

Week 16

Exam