

Answer Sheets • Plants and Photosynthesis

Assessment Focus • Knowledge

Q1	Q2	Q3	Q4.a	Q4.b	Q5	Q6
Respiration Growth Reproduction Nutrition	Reproduction Movement Nutrition Respiration Excretion Growth	Bamboo coral	Carbon dioxide Light Oxygen Glucose	1)CO ₂ 2)O ₂	Guard, water	Epidermis L Stigma F Petal F Stomata L Chloroplast L Anther F
Q7	Q8	Q9	Q10	Q11	Q12	
Roots IN Stomata OUT	Pollination is the process of transferring pollen grains from the male anther to the female stigma.	1 – High Fe 2 – Optimal 3 - Low Fe	Roots	Adenine Cellulose Starch Alanine	1) Mass(C) = 237.5 kg 2) Mass (CO ₂) = 871.625 kg 3) Mass (CO ₂) per year ~ 24.9 kg	

Assessment Focus • Scientific Method – Evaluation

Q1	Q2	Q3	Q4	Q5	Q6	Q7
1) The leaves will have different number of spines 4) There will be leaves without spines	Spines on leaves at the bottom protect the tree from herbivorous animals. Less spines on leaves at the top help birds to sit and eat the berries.	Repeatable, but not accurate	The trees are more likely to be older than 30 years old	In waterhemp data	1 – 2 2 – 1 3 – 3	Seeds: lavender, tomato Conditions: light, oxygen Substrate type: cotton, gelatin