

Yew Tee Primary School
P5 Science
Weighted Assessment 3 2021
Answer Key

Qn	Correct/Acceptable Answers	Marks	Remarks
1	4	2m each	
2	3		
3	4		
4	3		
5	1		
6	2		
7(a)	<i>Key idea: Process of breathing.</i> During breathing, (surrounding) air/oxygen enters the nose/mouth, through the windpipe and into the lungs.	1m	Must mention nose/mouth, windpipe and lungs.
7(b)	<i>Key idea: The more vigorous the activity, the faster the heart rate.</i> - The heart pumps faster [$\frac{1}{2}$] - to transport blood rich in oxygen (and digested food and water) [$\frac{1}{2}$] (to all parts of the body) - to release more energy/respire faster [$\frac{1}{2}$] - and carried away carbon dioxide faster [$\frac{1}{2}$] (from the body). <u>OR</u> During the run, his body needs more energy [$\frac{1}{2}$]. His heart pumps blood rich in oxygen (and digested food and water) [$\frac{1}{2}$] to his body faster [$\frac{1}{2}$] and carried away carbon dioxide/waste faster [$\frac{1}{2}$] (from the body).	2m	Pumps more blood <u>with</u> oxygen and digested food...[0m] Heart pumps oxygen/Pumps more blood <u>to get</u> oxygen and digested food. [0m]

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8(a)	<i>Key idea: As the number of leaves increases, the rate of photosynthesis increases. Food-carrying tubes transport food from the leaves to all parts of the plant.</i> C: Fruit A will be bigger over time. E: There are more leaves above X [$\frac{1}{2}$] R: so more food can be produced [$\frac{1}{2}$]. The food produced in the leaves that could not be transported downwards below X/down to the roots of the plant [$\frac{1}{2}$] get stored/accumulated in fruit A [$\frac{1}{2}$].	2m	Food is stucked [0m] Independent marking Direction must be stated
8(b)	<i>Key idea: Water-carrying tubes transport water from the roots to all parts of the plant for photosynthesis.</i> Water can still be transported to the leaves [$\frac{1}{2}$] for photosynthesis (or to make food) [$\frac{1}{2}$]. <u>OR</u> The plant still has water [$\frac{1}{2}$] and food [$\frac{1}{2}$] to survive. <u>OR</u> Food made in the leaves below X can be transported to the roots [$\frac{1}{2}$]. Roots can absorb water for the plant [$\frac{1}{2}$].	1m	
9(a)	<i>Key idea: The amount of light affects the rate of photosynthesis.</i> As the distance from lamp/distance X increases, the rate of photosynthesis decreases. <u>OR</u> As the distance from lamp/distance X decreases, the rate of photosynthesis increases.	1m	
9(b)	<i>Key idea: The number of plants affects the rate of photosynthesis.</i> C: Set-up Q.	1m	Comparison must be made

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	E: Since the mixture turned blue faster/took a shorter time to turn blue [$\frac{1}{2}$], R: more leaves will trap more light (and more carbon dioxide) <u>OR</u> more/faster photosynthesis [$\frac{1}{2}$].		DNA: shorter time to photosynthesise

Setter: Ms Carlyn Ong