

Table S4. Taxonomy of the middle school student's academic achievement test

Number	Content	Cognitive Domain						Score
		Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
1	Photosynthesis		O					10
2	Substances required for photosynthesis						O	10
3	Storage of photosynthetic products	O						10
4	Photosynthesis			O				10
5	Plant respiration	O						10
6	Plant respiration and photosynthesis					O		10
7	Substances produced by photosynthesis					O		10
8	Substances produced by photosynthesis						O	10
9	Environmental factors affecting photosynthesis				O			10
10	Structure of the leaf			O				10
11	Stomata of plants			O				10
12	Transpiration of plants		O					10
Total		2	2	3	1	2	2	120