

Content Assessment Reports for Exploring Life Year 2

Analysis of Content Assessment Item Scores from Chapter 7 - *The Working Cell: Energy from Food* (n=2278)

Question number	Ch.7 Pretest % correct	Ch.7 Posttest % correct	% change
1	48.9	59.5	10.6
2	43.4	61.1	17.7
3	48.1	68.6	20.5
4	50.6	50.0	-.06
5	63.3	55.1	-8.2
6	66.4	52.0	-14.4
7	34.5	51.4	16.9
8	35.0	47.0	12.0
9	17.8	41.9	24.1
10	27.3	51.4	24.1
11	54.9	50.2	-4.7
12	31.9	53.9	22.0
MEAN	5.59	8.03	43.6
t-TEST	t=43.384	df=2277	p<.001

Analysis of Content Assessment Item Scores from Chapter 8 - *The Working Cell: Energy from Sunlight*. (n=2377)

Question number	Pretest % correct	Posttest % correct	% change
1	47.6	58.8	11.2
2	36.8	56.3	19.5
3	51.3	67.0	15.7
4	38.0	57.4	19.4
5	38.0	53.2	15.2
6	21.1	35.7	14.6
7	34.8	55.8	21.0
8	18.3	46.5	28.2
9	16.2	37.9	21.7
10	21.2	25.8	4.6
11	34.5	41.8	7.3
12	39.3	45.9	6.6
13	29.1	49.5	20.4
14	27.2	32.7	5.5
15	20.6	43.1	22.5
16	19.0	23.6	4.6
17	28.2	39.0	10.8
MEAN	5.54	8.52	53.8
t-TEST	t=43.689	df=2376	p<.001

Analysis of Content Assessment Item Scores from Chapter 36- *The Biosphere*. (n=1281)

Question number	Pretest % correct	Posttest % correct	% change
1	66.4	75.9	9.5
2	46.6	59.5	12.9
3	43.5	58.7	15.2
4	50.3	50.5	0.2
5	29.5	49.4	19.9
6	14.1	26.3	12.2
7	8.0	21.4	13.4
8	59.2	63.5	4.3
9	21.4	26.3	4.9
10	21.8	45.4	23.6
11	31.3	38.3	7.0
12	19.7	32.9	13.2
13	34.0	42.4	8.4
14	19.4	43.3	23.9
15	20.7	48.3	27.6
MEAN	5.45	8.17	49.9
t-TEST	t=29.053	df=1280	p<.001