

Supplementary Table 5: Cronbach Alpha - Science Process Skills

PRE-SURVEY: *ScienceProcessSkills*

Student Code Survey	Q1	Q2	Q3	Q4	Q5	TOTAL
109AR	1	1	1	1	1	5
021X0	1	1	1	1	1	2
116JP	1	1	1	3	1	1
3131LI	1	2	1	1	1	2
3013SA	1	1	1	1	1	2
104AA	1	1	1	1	1	1
214MA	1	1	1	1	1	1
5323OT	1	2	2	2	2	1
1127EP	1	1	1	1	3	1
0227AA	1	1	1	1	1	1
2027LP	1	1	1	1	1	1
1023JE	1	1	1	1	1	1
1110GE	1	1	1	3	1	1
0220XA	1	1	1	1	3	3
109SH	1	1	1	1	1	1
2127AN	1	1	1	1	1	1
107KI	1	2	2	2	2	2
017XA	1	2	1	1	1	1
1022AA	1	1	1	1	1	1
121GA	1	1	1	1	1	3
1214SO	1	1	1	1	1	1
1225DA	1	2	1	2	1	1
1113OR	1	1	3	3	2	2
1029AA	1	1	1	1	1	1
0125MU	1	1	1	1	2	1
3127RA	1	1	1	1	1	1
11PCM	1	1	1	1	1	1
529AP	1	1	1	2	1	1
5212LE	1	1	1	1	2	1
1218WO	1	3	1	3	3	3
129GN	1	3	3	1	1	3
026AB	1	1	1	3	1	2
0226NA	1	2	1	1	1	2
1026S1	1	1	1	1	1	1
2225EA	1	2	1	1	1	2
025MU	1	1	1	1	1	1
116XO	1	1	2	1	1	2
01712KL	1	1	1	1	1	1
0123MA	1	1	1	2	2	2
1028PU	1	1	1	1	2	1
206EO	1	1	1	1	1	1
0121KO	1	1	1	1	1	1
0116XI	1	1	1	1	1	1

Number of Questions	5
Sum of item variances	1.717
Variance of total scores	3.628
Cronbach alpha	0.659

0125CD	1	1	1	1	1	1	5
211JE	1	2	1	2	1	2	8

Variance 0.28 0.22 0.451 0.34 0.4

POST-SURVEY: *ScienceProcessSkills*

Student Code Survey	Q1	Q2	Q3	Q4	Q5	TOTAL	
109AR	2	1	1	3	1	1	7
021X0	2	1	1	1	1	2	6
116JP	2	1	1	1	1	1	5
3131LI	2	1	1	1	1	2	6
3013SA	2	1	1	2	1	1	6
104AA	2	1	1	1	1	1	5
214MA	2	1	1	1	1	1	5
5323OT	2	2	1	2	2	1	8
1127EP	2	1	1	1	2	2	7
0227AA	2	1	1	1	1	1	5
2027LP	2	1	1	1	1	1	5
1023JE	2	1	1	1	1	1	5
1110GE	2	1	1	3	1	3	9
0220XA	2	1	1	1	3	3	9
109SH	2	1	2	1	1	2	7
2127AN	2	1	1	1	1	1	5
107KI	2	1	1	1	1	2	6
017XA	2	1	1	1	1	1	5
1022AA	2	1	1	1	1	1	5
121GA	2	1	1	1	1	3	7
1214SO	2	1	1	1	1	1	5
1225DA	2	2	1	1	1	1	6
1113OR	2	2	1	2	2	3	10
1029AA	2	1	1	1	1	1	5
0125MU	2	1	1	1	2	1	6
3127RA	2	1	1	1	2	1	6
11PCM	2	2	1	1	1	1	6
529AP	2	1	2	1	1	1	6
5212LE	2	1	1	1	1	1	5
1218WO	2	1	3	1	3	1	9
129GN	2	1	1	2	1	1	6
026AB	2	1	1	1	2	2	7
0226NA	2	2	1	2	1	1	7
1026S1	2	1	1	1	1	1	5
2225EA	2	1	1	1	1	1	5
025MU	2	1	1	1	1	1	5
116XO	2	1	1	1	1	1	5
01712KL	2	1	1	1	1	1	5
0123MA	2	1	1	2	2	2	8

Number of Questions	5
Sum of item variances	1.228
Variance of total scores	1.804
Cronbach alpha	0.4

1028PU	2	2	1	1	2	1	7
206EO	2	1	1	1	1	1	5
0121KO	2	1	1	1	1	1	5
0116XI	2	1	1	1	1	1	5
0125CD	2	1	1	1	1	2	6
211JE	2	1	2	1	2	2	8

Variance 0.12 0.143 0.262 0.29 0.4