

**Appendix H**  
**Honors Chemistry Concept Map Scoring**

Chapter	Pre-Concept Maps				Post-Concept Maps		
	Circles	Lines	Diff.		Circles	Lines	Diff.
1	13	12	0		19	18	0
	14	13	0		21	22	2
	16	15	0		17	17	1
	18	22	5		33	39	7
	17	19	3		14	15	2
	16	18	3		17	22	6
	13	25	13		13	17	5
	12	12	1		10	9	0
2	12	11	0		19	18	0
	23	24	2		41	47	7
	15	14	0		13	12	0
	20	20	1		26	26	1
3	18	17	0		11	10	0
	16	16	1		26	27	2
	22	24	3		25	36	12
	24	23	0		19	23	5
	22	22	1		31	39	9
4	22	23	2		24	24	1
	15	17	3		19	18	0
	19	15	-3		16	14	-1
	14	15	2		15	17	3
	17	20	4		17	20	4
	10	11	2		10	10	1
	15	16	2		21	23	3
	20	20	1		30	35	6
	21	21	1		21	21	1
	15	14	0		17	16	0
5	19	21	3		21	21	1
	24	24	1		33	39	7
	20	19	0		14	17	4
	16	16	1		19	21	3
	19	19	1		20	20	1
	23	28	6		21	24	4
	15	24	10		8	10	3
	15	14	0		18	17	0
	20	22	3		18	18	1
	20	19	0		26	27	2
10	35	34	0		24	30	7
	10	9	0		12	13	2
	10	10	1		11	10	0

Honors Chemistry Concept Map Scoring (Con't)

	21	18	<b>-2</b>		22	20	<b>-1</b>
	29	28	<b>0</b>		34	49	<b>16</b>
	25	23	<b>-1</b>		10	12	<b>3</b>
	23	23	<b>1</b>		27	31	<b>5</b>
	17	17	<b>1</b>		17	17	<b>1</b>
	13	12	<b>0</b>		12	11	<b>0</b>
	25	24	<b>0</b>		23	29	<b>7</b>
11	29	30	<b>2</b>		35	41	<b>7</b>
	15	17	<b>3</b>		20	19	<b>0</b>
	21	20	<b>0</b>		20	19	<b>0</b>
	17	16	<b>0</b>		22	21	<b>0</b>
	11	10	<b>0</b>		14	16	<b>3</b>
	17	17	<b>1</b>		24	22	<b>-1</b>
	12	11	<b>0</b>		26	26	<b>1</b>
	12	15	<b>4</b>		17	19	<b>3</b>
	22	27	<b>6</b>		23	26	<b>4</b>
6	11	10	<b>0</b>		22	23	<b>2</b>
	24	29	<b>6</b>		23	25	<b>3</b>
	11	12	<b>2</b>		11	12	<b>2</b>
	22	22	<b>1</b>		26	37	<b>12</b>
	16	16	<b>1</b>		8	8	<b>1</b>
	9	11	<b>3</b>		9	8	<b>0</b>
	10	9	<b>0</b>		15	16	<b>2</b>
	9	9	<b>1</b>		14	13	<b>0</b>
	15	15	<b>1</b>		13	13	<b>1</b>
<b>Averages</b>	<b>17.55</b>	<b>18.14</b>	<b>1.585</b>		<b>19.65</b>	<b>21.46</b>	<b>2.815</b>
<b>T-test probability (with difference)</b>							<b>0.02001</b>