

Table 1

Unit 1

Count							
Standard 1		Standard 2		Standard 6		Standard 7	
M1.1	4	1.1	2	1.1	3	1	3
M2.1	3	1.2	0	2.1	2	2	0
M3.1	3	1.3	0	2.2	4		
s1	4	1.4	0	2.3	4		
s2.1	6	1.5	2	2.4	5		
s2.2	0	2	0	3.1	3		
s2.3	5	3	0	3.2	3		
s2.4	1			4.1	8		
s3.1	4			4.2	6		
s3.2	1			5.1	5		
s3.3	0			5.2	1		
s3.4	4			6	3		
T1.1	0						
Standard 4				Standard 4			
Key idea 4				Key idea 5			
4.1i	0	4.3i	0	5.1i	0	5.3i	0
4.1ii	0	4.3ii	0	5.1ii	0	5.1ii	0
4.1iii	0	4.3iii	0	5.1iii	0		
4.1iv	0	4.3iv	0	5.1iv	1		
4.1v	1	4.3v	0	5.1v	7		
4.1vi	0	4.3vi	0	5.1vi	3		
4.1vii	0	4.3vii	0	5.1vii	1		
4.1viii	1	4.3viii	0	5.1viii	7		
4.1ix	0	4.3ix	0	5.1ix	0		
4.1x	0			5.1x	0		
4.1xi	0			5.1xi	0		
4.1xii	0			5.1xii	0		
4.1xiii	0			5.1xiii	0		
4.1xiv	0						
4.1xv	0						

Table 2

UNIT 2

Count							
Standard 1		Standard 2		Standard 6		Standard 7	
M1.1		3	1.1	2	1.1	3	1
M2.1		6	1.2	1	2.1	3	2
M3.1		3	1.3	0	2.2	5	
s1		6	1.4	0	2.3	6	
s2.1		5	1.5	1	2.4	6	
s2.2		0	2	0	3.1	0	
s2.3		4	3	0	3.2	1	
s2.4		3			4.1	4	
s3.1		3			4.2	2	
s3.2		1			5.1	3	
s3.3		3			5.2	1	
s3.4		5			6	0	
T1.1		0					
Standard 4				Standard 4			
Key idea 4				Key idea 5			
4.1i		3	4.3i	0	5.1i	0	5.3i
4.1ii		0	4.3ii	0	5.1ii	0	5.1ii
4.1iii		0	4.3iii	0	5.1iii	1	
4.1iv		0	4.3iv	0	5.1iv	0	
4.1v		7	4.3v	0	5.1v	1	
4.1vi		1	4.3vi	0	5.1vi	0	
4.1vii		1	4.3vii	0	5.1vii	1	
4.1viii		0	4.3viii	0	5.1viii	1	
4.1ix		0	4.3ix	0	5.1ix	0	
4.1x		0			5.1x	0	
4.1xi		0			5.1xi	0	
4.1xii		0			5.1xii	0	
4.1xiii		0			5.1xiii	0	
4.1xiv		0					
4.1xv		0					

The Occurrence of the NYSS When Compared to the Modeling Curricula in Units Three and Four

Table 3

UNIT 3

Count						
Standard 1		Standard 2		Standard 6		Standard 7
M1.1	1	1.1	1	1.1	0	1
M2.1	2	1.2	1	2.1	3	2
M3.1	3	1.3	0	2.2	4	
s1	2	1.4	0	2.3	3	
s1.1	0	1.5	0	2.4	3	
s2.1	3	2	0	3.1	0	
s2.2	0	3	0	3.2	0	
s2.3	3			4.1	0	
s2.4	2			4.2	0	
s3.1	5			5.1	2	
s3.2	0			5.2	2	
s3.3	2			6	1	
s3.4	3					
T1.1	0					
Standard 4				Standard 4		
key idea 4				Key idea 5		
4.1i	0	4.3i	0	5.1i	0	5.3i
4.1ii	0	4.3ii	0	5.1ii	0	5.1ii
4.1iii	0	4.3iii	0	5.1iii	0	
4.1iv	1	4.3iv	0	5.1iv	0	
4.1v	2	4.3v	0	5.1v	0	
4.1vi	8	4.3vi	0	5.1vi	0	
4.1vii	5	4.3vii	0	5.1vii	1	
4.1viii	5	4.3viii	0	5.1viii	0	
4.1ix	8	4.3ix	0	5.1ix	0	
4.1x	3			5.1x	0	
4.1xi	4			5.1xi	0	
4.1xii	7			5.1xii	0	
4.1xiii	3			5.1xiii	0	
4.1xiv	7					
4.1xv	0					

Table 4

UNIT 4

Count						
Standard 1		Standard 2		Standard 6		Standard 7
M1.1	3	1.1	0	1.1	1	1
M2.1	1	1.2	1	2.1	4	2
M3.1	2	1.3	0	2.2	4	
s1	2	1.4	0	2.3	1	
s1.1	0	1.5	0	2.4	3	
s2.1	4	2	0	3.1	0	
s2.2	0	3	0	3.2	0	
s2.3	5			4.1	1	
s2.4	5			4.2	1	
s3.1	5			5.1	1	
s3.2	0			5.2	1	
s3.3	5			6		
s3.4	5					
T1.1	0					
Standard 4				Standard 4		
Key idea 4				Key idea 5		
4.1i	0	4.3i	0	5.1i	0	5.3i
4.1ii	0	4.3ii	0	5.1ii	0	5.1ii
4.1iii	0	4.3iii	0	5.1iii	0	
4.1iv	0	4.3iv	0	5.1iv	0	
4.1v	1	4.3v	0	5.1v	3	
4.1vi	1	4.3vi	0	5.1vi	1	
4.1vii	2	4.3vii	0	5.1vii	3	
4.1viii	3	4.3viii	0	5.1viii	1	
4.1ix	0	4.3ix	0	5.1ix	0	
4.1x	0			5.1x	0	
4.1xi	0			5.1xi	0	
4.1xii	0			5.1xii	0	
4.1xiii	0			5.1xiii	0	
4.1xiv	0					
4.1xv	5					

The Occurrence of the NYSS When Compared to the Modeling Curricula in Units Five and Six

Table 5

PARTICLE MODEL

Count						
Standard 1		Standard 2		Standard 6		Standard 7
M1.1	3	1.1	2	1.1	2	1 6
M2.1	2	1.2	0	2.1	10	2 0
M3.1	6	1.3	0	2.2	8	
s1	9	1.4	0	2.3	4	
s2.1	8	1.5	2	2.4	8	
s2.2	3	2	1	3.1	1	
s2.3	8	3	2	3.2	0	
s2.4	8			4.1	1	
s3.1	9			4.2	0	
s3.2	3			5.1	6	
s3.3	7			5.2	0	
s3.4	9			6	0	
T1.1	0					
Standard 4				Standard 4		
Key idea 4				Key idea 5		
4.1i	0	4.3i	0	5.1i	0	5.3i 0
4.1ii	0	4.3ii	0	5.1ii	0	5.1ii 0
4.1iii	0	4.3iii	0	5.1iii	0	
4.1iv	0	4.3iv	0	5.1iv	0	
4.1v	0	4.3v	0	5.1v	0	
4.1vi	0	4.3vi	0	5.1vi	0	
4.1vii	0	4.3vii	1	5.1vii	0	
4.1viii	2	4.3viii	13	5.1viii	0	
4.1ix	0	4.3ix	4	5.1ix	0	
4.1x	0			5.1x	0	
4.1xi	0			5.1xi	0	
4.1xii	0			5.1xii	0	
4.1xiii	0			5.1xiii	0	
4.1xiv	0					
4.1xv	0					

Table 6

WAVE MODEL

Count						
Standard 1		Standard 2		Standard 6		Standard 7
M1.1	2	1.1	0	1.1	2	1 2
M2.1	4	1.2	1	2.1	13	2 0
M3.1	6	1.3	0	2.2	12	
s1	9	1.4	0	2.3	13	
s2.1	9	1.5	4	2.4	10	
s2.2	1	2	2	3.1	1	
s2.3	9	3	1	3.2	0	
s2.4	9			4.1	2	
s3.1	10			4.2	0	
s3.2	0			5.1	9	
s3.3	9			5.2	6	
s3.4	9			6		
T1.1	0					
Standard 4				Standard 4		
Key Idea 4				Key idea 5		
4.1i	0	4.3i	13	5.1i	0	5.3i 0
4.1ii	0	4.3ii	13	5.1ii	0	5.1ii 0
4.1iii	0	4.3iii	4	5.1iii	0	
4.1iv	0	4.3iv	3	5.1iv	0	
4.1v	1	4.3v	0	5.1v	0	
4.1vi	0	4.3vi	8	5.1vi	0	
4.1vii	0	4.3vii	16	5.1vii	0	
4.1viii	0	4.3viii	4	5.1viii	0	
4.1ix	0	4.3ix	5	5.1ix	0	
4.1x	0			5.1x	0	
4.1xi	0			5.1xi	0	
4.1xii	0			5.1xii	0	
4.1xiii	0			5.1xiii	0	
4.1xiv	0					
4.1xv	0					