

Supplemental Material

CBE—Life Sciences Education

Wahlberg and Gericke

SUPPLEMENTAL MATERIAL TABLE 1: the absolute frequency of the sample words in each textbook

Sample Term	C) Andersson et al. (2013)	C) Borén et al. (2012)	C) Henriksson (2012b)	B) Björndahl et al. (2011)	B) Brynhildsen et al. (2011)	B) Henriksson (2012a)	B) Karlsson et al. (2011)	Average (Chemistry)	Average (Biology)
DNA	5	22	15	11	9	17	27	14.0	16.0
Gene	8	13	7	6	24	6	17	9.3	13.3
mRNA	16	13	21	13	12	21	26	16.7	18.0
Exon	0	3	1	1	4	1	6	1.3	3.0
Intron	0	4	3	2	4	3	8	2.3	4.3
tRNA	33	18	8	6	5	9	15	19.7	8.8
Aminoacid	12	26	9	13	7	8	25	15.7	13.3
Peptide	6	3	2	0	0	0	0	3.7	0
Protein	8	26	12	16	17	7	30	15.3	17.5

C) refers to a chemistry textbook and B) refers to a biology textbook.

SUPPLEMENTAL MATERIAL TABLE 2: The relationships between sample terms in the chemistry textbooks and biology textbooks respectively.

Chemistry (%)	DNA	Gene	mRNA	Exon	Intron	tRNA	Aminoacid	Peptide	Protein
DNA									
Gene	5.8								
mRNA	5.1	4.3							
Exon	0	0	0.7						
Intron	0.7	0	1.4	1.4					
tRNA	1.4	0	8.7	0	0				
Aminoacid	2.2	0.7	5.8	0	0	18.8			
Peptide	0	0	1.4	0	0	5.1	3.6		
Protein	6.5	6.5	8.0	0.7	0	3.6	5.8	1.4	

Biology (%)	DNA	Gene	mRNA	Exon	Intron	tRNA	Aminoacid	Peptide	Protein
DNA									
Gene	11.4								
mRNA	8.0	2.8							
Exon	0.6	1.1	2.3						
Intron	1.7	1.1	1.1	2.3					
tRNA	0	0	4.5	0	0				
Aminoacid	1.1	1.1	8.0	0	0	11.9			
Peptide	0	0	0	0	0	0	0		
Protein	8.5	9.7	9.1	2.3	2.8	0.6	8.0	0	

The numbers are presented as percent of the total number of relationships found between the sample terms.