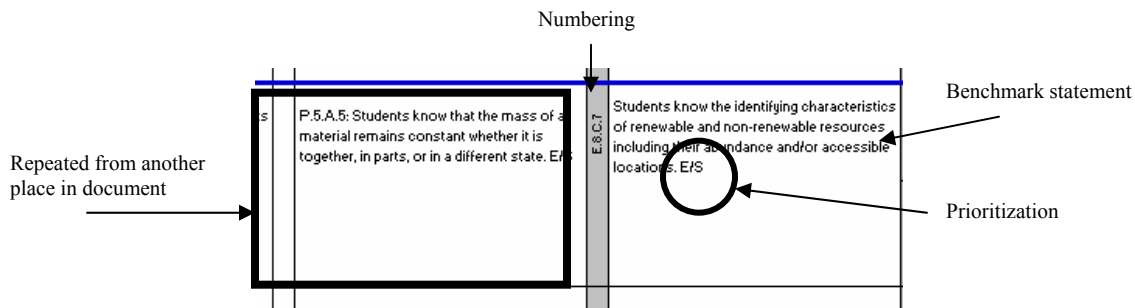


Components of the Science Standards Draft Document

The science standards have been organized differently in the 2004 draft. Below is a key to the components on each page:

Energy (Physical Science: Unifying concept) The following table unifies it content. All events involve the transfer of energy; in all energy transfers, the overall effect is that the energy is spread out uniformly.				
Grade 8-2				
U	Students know that heat, light and sound can be produced.	U	Students understand that energy exists in different forms.	Standard
L	Students know that the Sun is a major source of energy for the earth.	L	Students know that the Sun is a major source of energy for the earth.	
S	Students know that light can be described as a wave or a particle (e.g., color, refraction, reflection).	S	Students know that light is a narrow band within the electromagnetic spectrum.	
D	Students know that sound is produced by vibrating objects.	D	Students know that sound is a longitudinal wave that travels away from the source randomly.	
U	Students know that sound is produced by vibrating objects.	U	Students know the wave characteristics of sound.	Concept
L	Students know that light can be described as a wave or a particle (e.g., color, refraction, reflection).	L	Students know that light is a narrow band within the electromagnetic spectrum.	
S	Students know that sound is produced by vibrating objects.	S	Students know that sound is a longitudinal wave that travels away from the source randomly.	
D	Students know that sound is produced by vibrating objects.	D	Students know the wave characteristics of sound.	
U	Students know that sound is produced by vibrating objects.	U	Students know that sound is a longitudinal wave that travels away from the source randomly.	Benchmark
L	Students know that light can be described as a wave or a particle (e.g., color, refraction, reflection).	L	Students know that light is a narrow band within the electromagnetic spectrum.	
S	Students know that sound is produced by vibrating objects.	S	Students know that sound is a longitudinal wave that travels away from the source randomly.	
D	Students know that sound is produced by vibrating objects.	D	Students know the wave characteristics of sound.	
U	Students know that sound is produced by vibrating objects.	U	Students know that sound is a longitudinal wave that travels away from the source randomly.	Benchmark number
L	Students know that light can be described as a wave or a particle (e.g., color, refraction, reflection).	L	Students know that light is a narrow band within the electromagnetic spectrum.	
S	Students know that sound is produced by vibrating objects.	S	Students know that sound is a longitudinal wave that travels away from the source randomly.	
D	Students know that sound is produced by vibrating objects.	D	Students know the wave characteristics of sound.	

Within each benchmark, the following information is found:



Numbering of Benchmarks:

4	Benchmarks numbered
B.	Unifying concept (A, B, C, or D)
5.	Upper end of grade band
E.	Strand (Nature of Science, Earth, Life, Physical)