[Simple Scoring Scheme] Example 2

Seq. 1: GAT

Seq. 2: GCAAT

Match: +8   (w(a, b) = 8, if a = b)

Mismatch: -5 (w(a, b) = -5, if a ≠ b)

Each gap symbol: -3 (w(-,b) = w(a,-) = -3)

S

		G	C	A	A	T
	0	-3	-6	-9	-12	-15
G	-3					
A	-6					
T	-9					

[Affine Gap Penalties] Example 2

Seq. 1: GAT

Seq. 2: GCAAT

Match: +8   (w(a, b) = 8, if a = b)

Mismatch: -5 (w(a, b) = -5, if a $\neq$ b)

Each gap symbol: -3 (w(-,b) = w(a,-) = -3)

Each gap is charged an extra gap-open penalty: -4

D

		G	C	A	A	T
	-∞	-∞	-∞	-∞	-∞	-∞
G	-7					
A	-10					
T	-13					

I

		G	C	A	A	T
	-∞	-7	-10	-13	-16	-19
G	-∞					
A	-∞					
T	-∞					

S

		G	C	A	A	T
	0	-7	-10	-13	-16	-19
G	-7					
A	-10					
T	-13					