

# Restriction enzyme worksheet

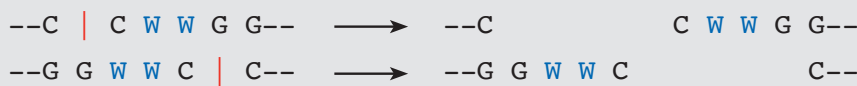
Use the restriction enzymes below to cut the single strands of DNA. Then mark each fragment on the gel with a line that matches the number of bases for each strand.

## Restriction enzymes

Rsa I



Sty I (W = A or T)



## 3 single strands of DNA

(i) Rsa I

G C T A A A T C T C G G A G A G T T G A  
 A G T A C G C A C T C G A T T T A G A G  
 C C T C T C A A C T T C A T G C G T G A

Number of fragments created =                      Fragment lengths (number of bases) =

(ii) Sty I

G T T G A A G T A C G C C A T G G T A A  
 A T C T C G G A G A C A A C T T C A T G  
 C G G T A C C A T T T A G A G C C T C T

Number of fragments created =                      Fragment lengths =

(iii) Both Rsa I and Sty I

C G G A G A T G G T A C A A T C G C C T  
 T G G T A A A T C T G C C T C T A C C A  
 T G T T A G C G G A A C C A T T T A G A

Number of fragments created =                      Fragment lengths =

