

# Download File PDF Restriction Enzymes Dna Scissors Answer Key

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## Teacher Guide DNA Scissors: Introduction to Restriction Enzymes

- Check for Understanding 1:
1. What type of molecule is an enzyme? Protein
  2. What kind of organisms make genetic engineering possible? Restriction enzymes
  3. What is the function of these enzymes? DNA scissors cut the DNA sequence in a specific place
  4. What is a restriction site? Specific DNA sequence recognized by the enzyme where it cuts
  5. What would be the "bottom" of the following DNA palindromes?  
5' CAA TGG 3'  
3' ATT ACA 5'

- Check for Understanding 2:
6. What is a "sticky end"? Single-stranded DNA left by some restriction enzymes
  7. Which of the enzymes above would leave sticky ends? EcoRI, BamHI, HinfI, HpaI
  8. Which of the enzymes above would leave blunt ends? SmaI, SfiI
  9. What is recombinant DNA? DNA made from combining DNA from 2 diff sources
  10. What is one use of recombinant DNA? Make a clone of genes (trans)
  11. Would DNA with sticky ends or blunt ends be used to make recombinant DNA? Explain why. either works but has specific sticky ends

- EXERCISE 1
- Questions Part 1:
- A. Are the EcoRI ends sticky or blunt? Sticky
  - A. Are there any hydrogen bonds between the cut sites in SmaI? No
  - B. Are the SmaI ends sticky or blunt? Blunt
  - A. Are the HinfI ends sticky or blunt? Sticky
- Questions Part 2
2. Write down the base sequence of the two tails and label them "EcoRI" and "HinfI". Label the 5' and 3' ends.  
5' ATC-CT Blunt

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