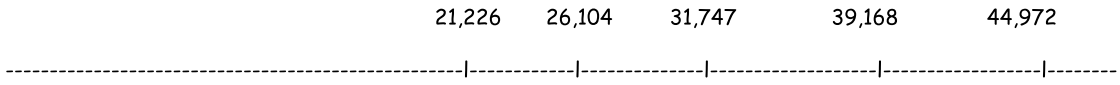
Name: Date:

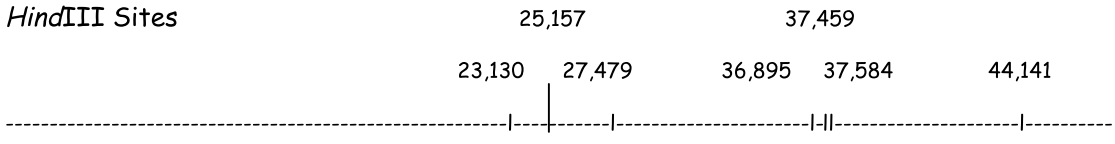
Restriction maps of the linear □ genome

Lambda (□)

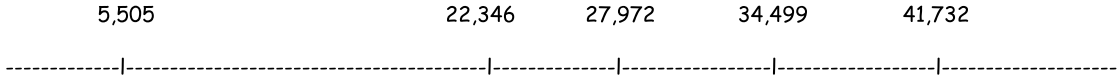
*Eco*RI Sites



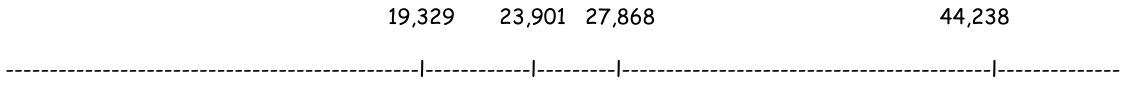
*Hind*III Sites



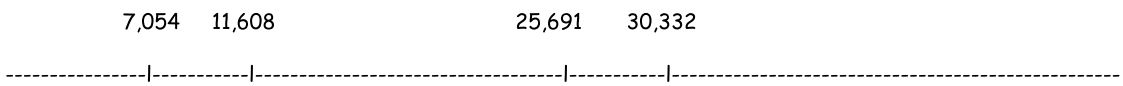
*Bam*HI Sites



*Nco*I Sites



*Bmr*I Sites



*Stu*I Sites

Gel electrophoresis: sort and see the DNA

Making a DNA fingerprint

In this activity, you will model the construction of DNA fingerprints for a viral genome using different restriction enzymes. You will also practice interpreting restriction maps and visualize how the process of gel electrophoresis separates DNA fragments.

DNA restriction fragment size chart

Directions:

List your DNA fragments in the following chart under the column of the appropriate restriction enzyme.

List each fragment, from largest to smallest.

EcoRI	*HindIII*	*BamHI*	*NcoI*	*BmrI*	*StuI*

Name: Date:

DNA fingerprints

Marker	*Eco*RI	*Hin*dIII	*Bam*HI	*Nco*I	*Bmr*I	*Stu*I
(50,000)						
(30,000)						
(20,000)						
(15,000)						
(10,000)						
(5,000)						
(2,500)						
(1,000)						