

Name:  
Date:

# Plasmid Mapping Worksheet 4: Fragments to Mapping

## Comprehension Problems

Answer the following comprehension questions

1. Two students digested an unknown plasmid using combinations of various restriction enzymes listed below. They ran the digested product on an agarose gel, counted the number of fragments produced, along with the size of each fragment. Their results are summarized in the table below.

a. Using the information provided in the table below, construct a restriction map of the unknown plasmid.

Enzyme(s)	No. Fragments	Fragment sizes
HindIII	1	10kb
EcoRI	4	1kb, 1kb, 3kb, 5kb
HindIII + EcoRI	5	1kb, 1kb, 2kb, 3kb, 3kb

