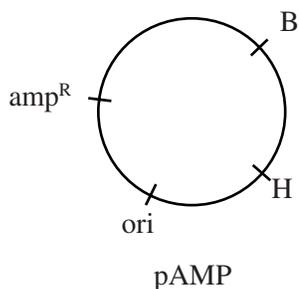
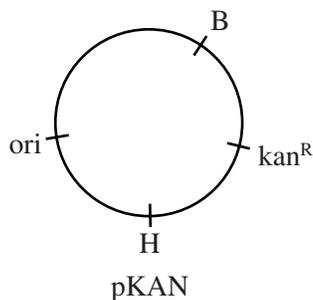


# Plasmid Simulation Worksheet

Circular plasmids can be diagrammed in a shorthand way. The parent plasmids can be drawn as follows:



Where:

H = *Hind*III site

B = *Bam*HI site

ori = origin of replication

amp<sup>R</sup> = ampicillin-resistant gene

kan<sup>R</sup> = kanamycin-resistant gene

Use the same abbreviations shown above to diagram the recombinant products possible from the pooled fragments. Use this information to answer the questions for each new plasmid.

Plasmid Diagram	Approximate Size (bp)	Can it reproduce? (have an origin)	Resistant to	
			Kanamycin?	Ampicillin?

Plasmid Simulation Worksheet, con't.

Plasmid Diagram	Approximate Size (bp)	Can it reproduce? (have an origin)	Resistant to	
			Kanamycin?	Ampicillin?