

Name _____

Period _____

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SECTION
9.1

MANIPULATING DNA
Power Notes

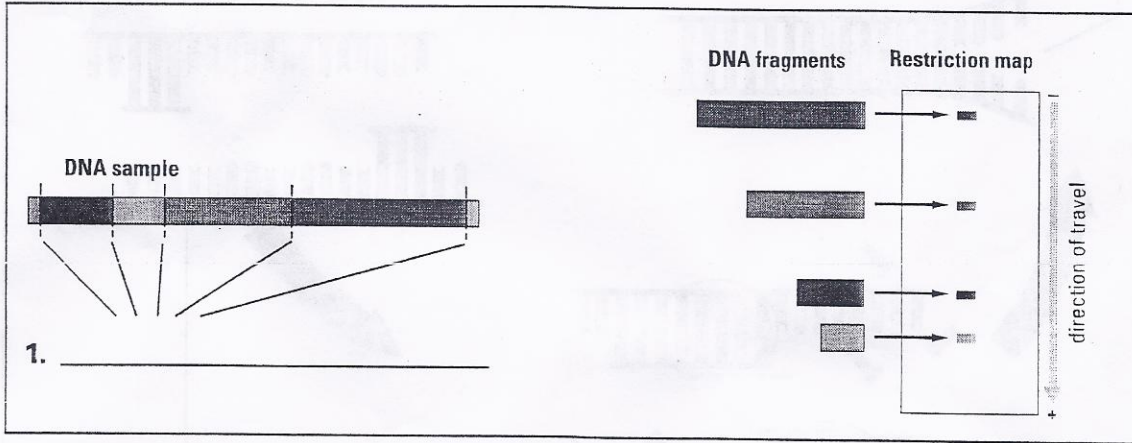
Collected from:

Used for:

Restriction Enzymes

Cut DNA at:

Can leave:



Gel electrophoresis:

-
-

Restriction maps show:

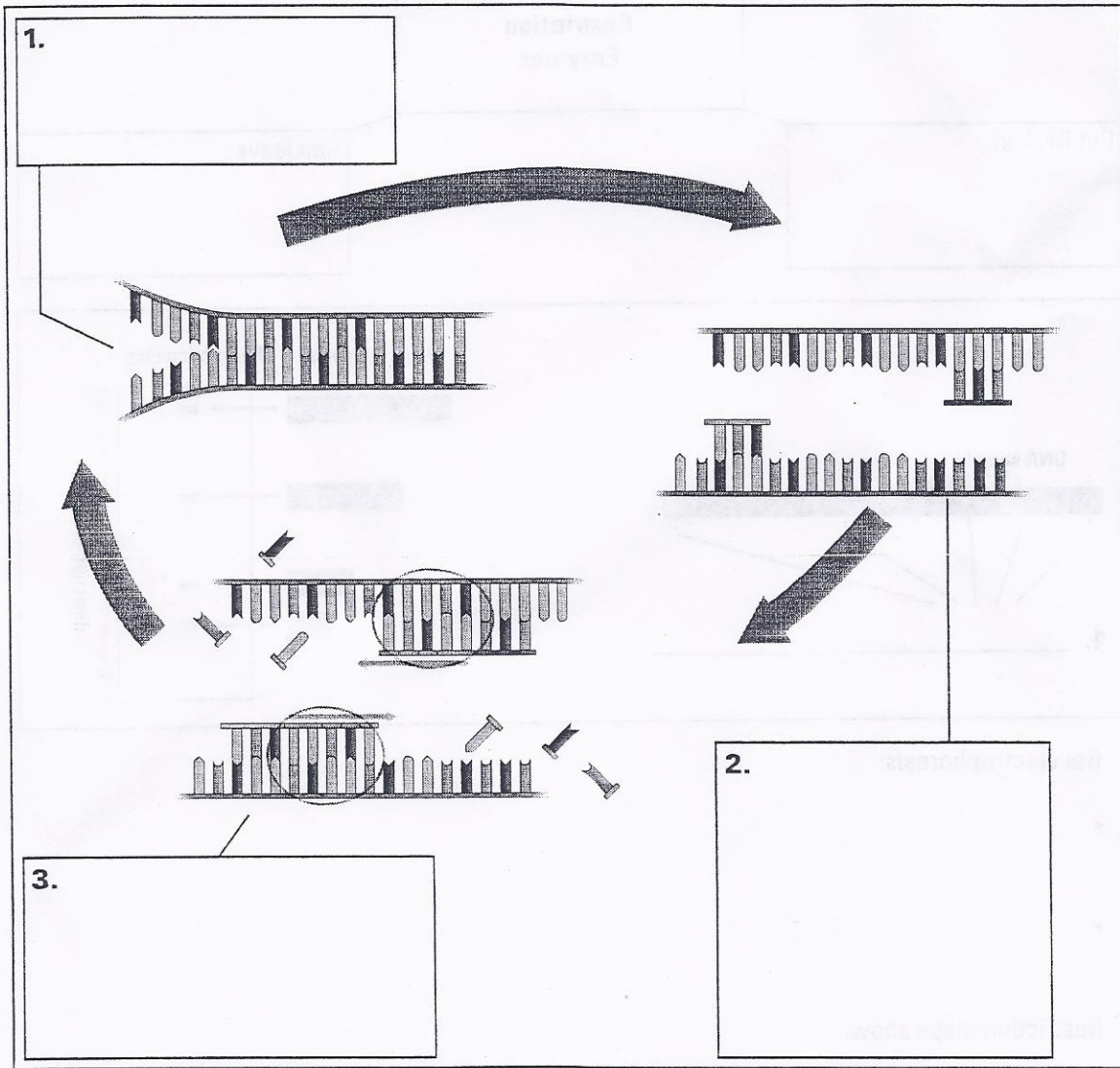
-
-

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SECTION
9.2

COPYING DNA
Power Notes

Polymerase chain reaction is:



PCR amplifies DNA samples by:

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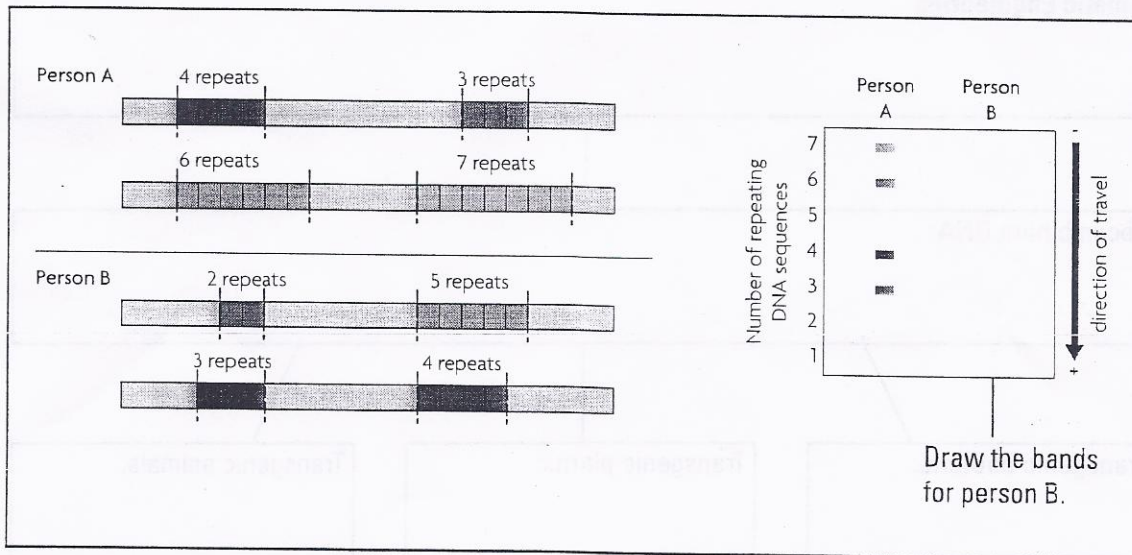
SECTION
9.3

DNA FINGERPRINTING
Power Notes

DNA Fingerprinting

Based on:

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-
-
-



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DNA fingerprinting and probability:

Uses of DNA fingerprinting:

Name

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SECTION
9.4

GENETIC ENGINEERING
Power Notes

Cloning		
In nature:	Mammals:	Potential and controversy:

Genetic Engineering

Recombinant DNA:

Transgenic bacteria:

Transgenic plants:

Transgenic animals:

Concerns about genetic engineering:

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SECTION
9.5

GENOMICS AND BIOINFORMATICS
Power Notes

Gene sequencing:

Genomics:

Human Genome Project:

Bioinformatics:	DNA microarrays:	Proteomics:
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SECTION
9.6

GENETIC SCREENING AND GENE THERAPY
Power Notes

Genetic screening:

Empty box for notes on Genetic screening.

Detecting genetic disorders:

Empty box for notes on Detecting genetic disorders.

Detecting disease risk:

Empty box for notes on Detecting disease risk.

Gene therapy is:

Empty box for notes on Gene therapy is.

Experimental Methods Used

Genetically engineered viruses:

Stimulate immune system:

Insert "suicide gene":

Empty box for notes on Genetically engineered viruses.	Empty box for notes on Stimulate immune system.	Empty box for notes on Insert "suicide gene".
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Technical challenges include:

-
-
-

Empty box for notes on Technical challenges include.

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