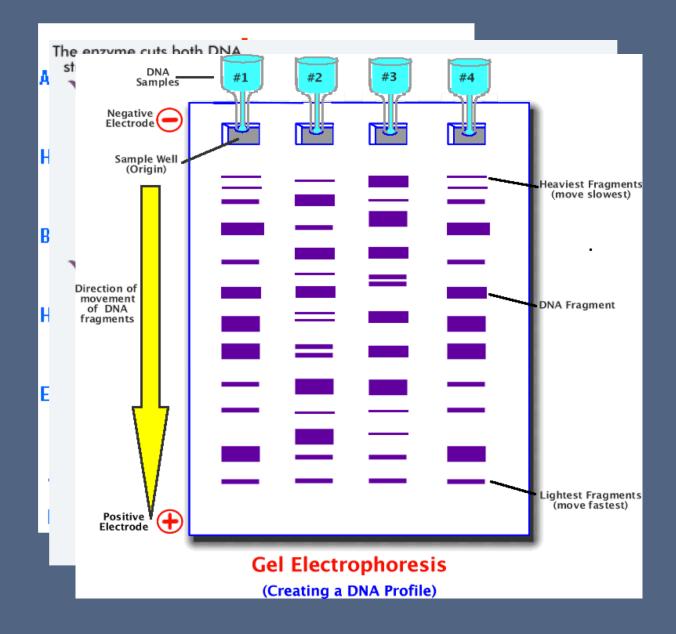
Ch 15.3: Studying the Human Genome

Essential questions:

- How can scientists read DNA base sequences?
- What research efforts have resulted from the Human Genome Project

- Manipulating DNA
 - Cutting DNA
 - Restriction enzymes
 - Separating DNA
 - Gel electrophoresis
 - Reading DNA
 - Assembling the sequence



- The Human Genome What's Inside?
 - How many genes?
 - The large and the small of it
 - The personal genome
 - Genome privacy
 - Gene imprinting
 - Genomic imprinting

Species	Escherichia coli	Gallus gallus	Homo sapiens	Daphnia pulex	Oryza sativa
Number of Genes	~4,200	~17,000	~21,000	~31,000	~38,000
Common Name	Bacteria	Chicken	Human	Water flea	Rice