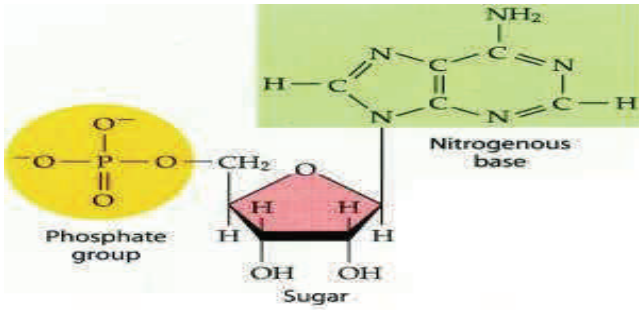


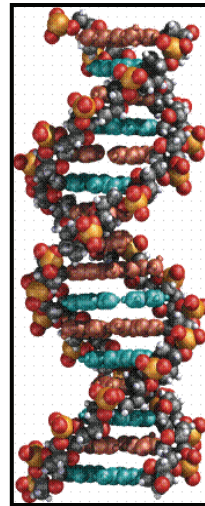
DNA is a nanoscale structure.
It has a diameter of one to two nanometers

DNA Molecule



Nucleotide = nitrogenous base + sugar + phosphate

Image courtesy of DynamicScience.com.au



10 ⁿ	Prefix	Symbol	Decimal
10 ²⁴	yotta-	Y	1 000 000 000 000 000 000 000 000
10 ²¹	zetta-	Z	1 000 000 000 000 000 000 000
10 ¹⁸	exa-	E	1 000 000 000 000 000 000
10 ¹⁵	peta-	P	1 000 000 000 000 000
10 ¹²	tera-	T	1 000 000 000 000
10 ⁹	giga-	G	1 000 000 000
10 ⁶	mega-	M	1 000 000
10 ³	kilo-	k	1 000
10 ²	hecto-	h	100
10 ¹	deca-	da	10
10 ⁰	(none)	(none)	1
10 ⁻¹	deci-	d	0.1
10 ⁻²	centi-	c	0.01
10 ⁻³	milli-	m	0.001
10 ⁻⁶	micro-	μ	0.000 001
10 ⁻⁹	nano-	n	0.000 000 001
10 ⁻¹²	pico-	p	0.000 000 000 001
10 ⁻¹⁵	femto-	f	0.000 000 000 000 001
10 ⁻¹⁸	atto-	a	0.000 000 000 000 000 001
10 ⁻²¹	zepto-	z	0.000 000 000 000 000 000 001
10 ⁻²⁴	yocto-	y	0.000 000 000 000 000 000 000 001

Genetic Code for Amino Acids

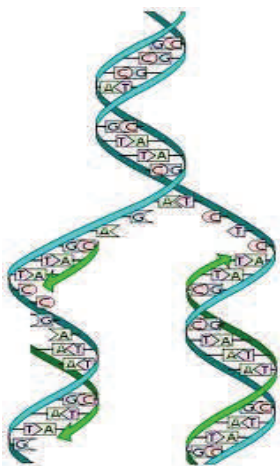
	U	C	A	G	
U	UUU Phenyl-alanine UUC	UCU Serine UCC UCA UCG	UAU Tyrosine UAC	UGU Cysteine UGC	U C A G
C	CUU Leucine CUC CUA CUG	CCU Proline CCC CCA CCG	CAU Histi-dine CAC	CGU Arginine CGC CGA CGG	U C A G
A	AUU Iso-leucine AUC AUA	ACU Threo-nine ACC ACA ACG	AAU Aspara-gine AAC	AGU Serine AGC	U C A G
G	AUG Met-thionine	GCU Alanine GCC GCA GCG	AAA Lysine AAG	AGA Arginine AGG	U C A G
	GUU Valine GUC GUA GUG		GAU Aspartic acid GAC	GGU Glycine GGC GGA GGG	U C A G
			GAA Glutamic acid GAG		U C A G

Dihybrid Cross

	B/G	B/g	b/G	b/g
B/G	BB/GG	BB/Gg	Bb/GG	Bb/Gg
B/g	BB/Gg	BB/gg	Bb/Gg	Bb/gg
b/G	Bb/GG	Bb/Gg	bb/GG	bb/Gg
b/g	Bb/Gg	Bb/gg	bb/Gg	bb/gg

DNA Replication

Creation of mRNA



A = Adenine
G = Guanine
T = Thymine
C = Cytosine

http://en.wikipedia.org/wiki/DNA_replication

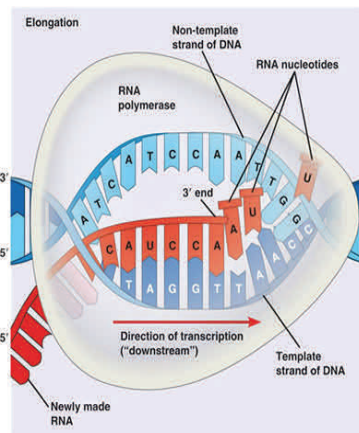


Image courtesy of DynamicScience.com.au

Monohybrid Cross

	A	a
A	AA	Aa
a	Aa	aa