



Name _____ Class _____ Date _____

Match each of the following terms to its definition:

Codon

Double helix

Karyotype

Anticodon

Allele

Amino acid

Genetic code

Gene

1. _____ - different forms of a gene

2. _____ - the building blocks of protein molecules

3. _____
complem

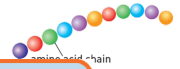
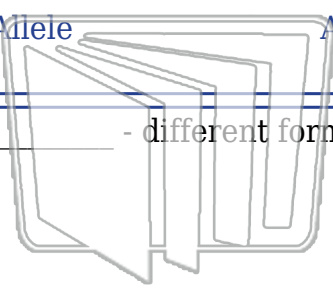
4. _____
code for

5. _____
the printable version of this worksheet

6. _____ - the sequence of DNA that codes for a specific trait

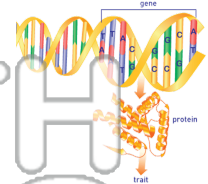
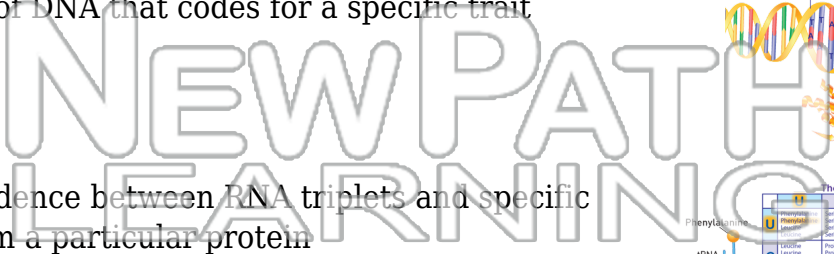
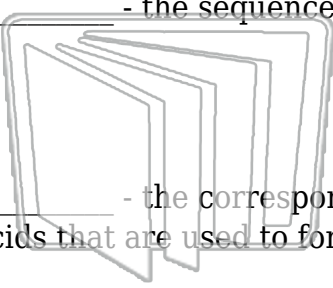
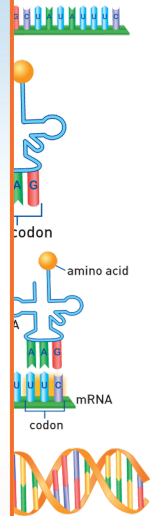
7. _____ - the correspondence between RNA triplets and specific amino acids that are used to form a particular protein

8. _____ - a picture of the actual chromosomes of the organism, arranged in pairs



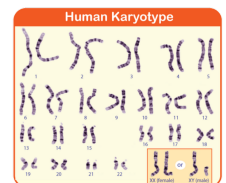
PREVIEW

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The Genetic Code

	T	C	A	G
U	Phenylalanine	Serine	Tyrosine	Cysteine
C	Proline	Proline	Stop	Stop
A	Asparagine	Asparagine	Serine	Glutamine
G	Glycine	Alanine	Valine	Glutamic acid





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Karyotype

Anticodon

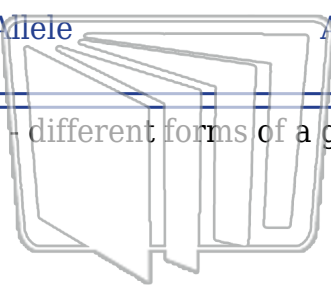
Allele

Amino acid

Genetic code

Gene

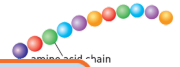
1. **allele** - different forms of a gene



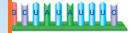
NEW PATH LEARNING



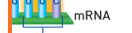
2. **amino acid** - the building blocks of protein molecules



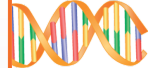
3. **anticodon** - complements the codon



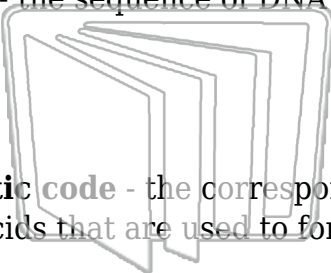
4. **codon** - codes for the production of an amino acid



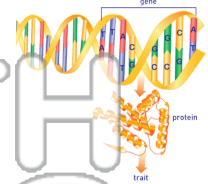
5. **double helix** - the structure of DNA



6. **gene** - the sequence of DNA that codes for a specific trait



NEW PATH LEARNING



7. **genetic code** - the correspondence between RNA triplets and specific amino acids that are used to form a particular protein

The Genetic Code

5'	T	C	A	G	3'
U	Phenylalanine	Serine	Cysteine	Cysteine	C
C	Proline	Proline	Tyrosine	Tyrosine	A
A	Asparagine	Asparagine	Stop	Stop	G
G	Glycine	Glycine	Stop	Stop	U
U	Valine	Valine	Histidine	Arginine	C
C	Leucine	Leucine	Arginine	Arginine	A
A	Leucine	Leucine	Glutamine	Arginine	G
G	Leucine	Leucine	Proline	Arginine	U
U	Methionine	Threonine	Alanine	Serine	C
C	Methionine	Threonine	Asparagine	Serine	A
A	Methionine	Threonine	Lysine	Arginine	G
G	Methionine	Threonine	Threonine	Arginine	U
U	Alanine	Alanine	Glycine	Glycine	C
C	Alanine	Alanine	Aspartic acid	Glycine	A
A	Alanine	Alanine	Glutamic acid	Glycine	G
G	Alanine	Alanine	Glutamic acid	Glycine	U

8. **karyotype** - a picture of the actual chromosomes of the organism, arranged in pairs

