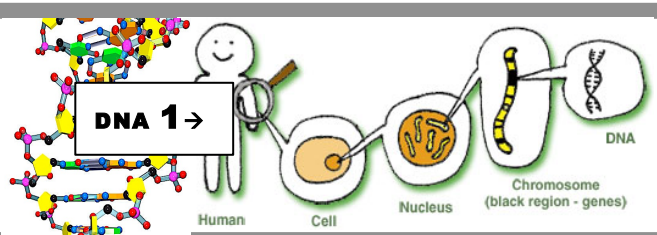
LIFE 8 GENETICS 3



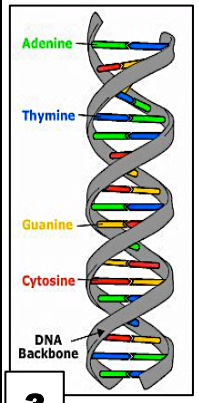
Science 8 January 2018

Mrs. Plyter plyter.com/science

Name Per

Thu

2



3

DNA Genes Videos

Science→Life→Genetics

Watch videos and fill in the Blanks on the Back of this Calendar.

Have the Screen Checked.

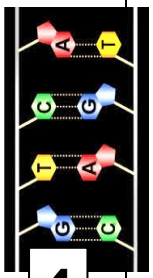
1) What Exactly is a Gene? _____

2) What is DNA? Red Orbit _____

3) What is DNA & How does it Work? _____

4) Genes, DNA & Chromosomes __

5) Mr. W's DNA Rap _____



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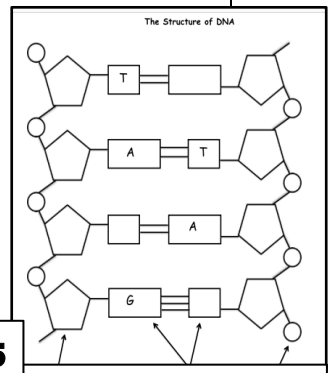


5

↑Add missing Base Pair letters, Sugars (S) and Phosphates (P).

Karyotyping

Make a Karyotype

Have screen checked.

_____

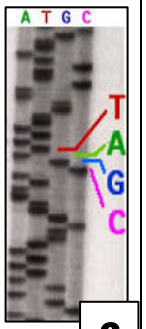
Karyotyping Activity:

Make a chart or use a handout.

_____

+ Have the last screen checked.

3



6

DNA Lab

Observe DNA by getting it to absorb water.

Handout.

Lab Protocol_____

DNA____

.

4

DNA Model

Help with the Class DNA Models

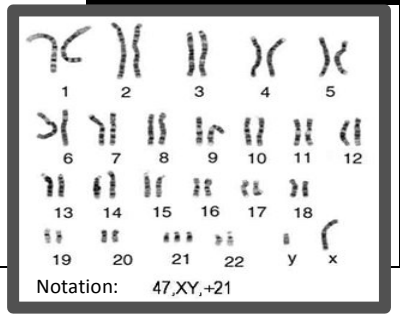
1) Handout + Video :
DNA Origami
2) **Fold according to directions.**
3) Attach yours to the class DNA Model so we CAN NOT see the connection!! Help hang!

_____

Need Paper directions?
→**Worksheets Page**

The Karyotype Below

_____ (normal /abnormal?)
_____(human/other?)
_____ (♂ or ♀?)
_____(male of female?)
with a diagnosis of
_____.
Doctors would write the notation as____, ____, ____
↓ _____



5

Genetics Genome:

Genetic Disorders

Use :
1) Genetics Disorders/Defects Genetics Page Links
+ 3 **Handouts**
2) Human Genome Poster
3) Online Link
Life→Genetics Page→
Chromosome Map

Include:
1) Down Syndrome.
2) Sickle Cell Disease

5 pts each
15+_____

Family Trait

Add a Family Trait and/or Defect Trait to your Family Tree.

5 each_____

ORGANIZATION !

Last week it was worth 20 points to have an organized binder with empty pockets!
You can still get 20 points If you are organized when you come in.
Let me know!

Points

Objective

DNA Videos

DNA Blanks on Calendar Back

DNA Model

DNA LAB

Karyotyping

Genome/Family Trait

Quiz Points:

Tue _____

Wed _____

Thu _____

Fri _____

Total_____

Central Science Page

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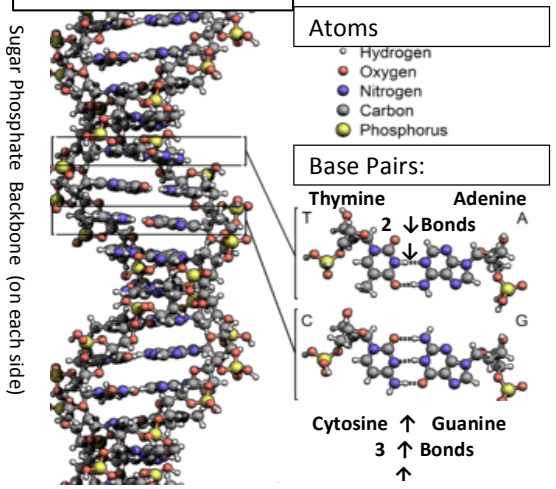
Discovery Education

Life Science→

Genetics→

McGraw Hill ConnectEd

DNA 2 - Key



Watch a Video…. Fill in the Blanks:

DNA and Genes:

1) DNA is the abbreviation for _____ Acid.
2) The basic DNA code is made up of 4 bases _____, _____, _____, & _____ that go by the letters ___, ___, ___ &___.
3) A gene is a _____ of DNA & is a code for a trait.
4) A gene is a sequence of nucleotides that tell a cell how to make _____.
5) Proteins make body parts we call traits, such as _____.
6) We have ____ chromosomes, ____ from each parent.
7) We have about _____ genes.
8) A gene can have _____ letters to as many as _____ letters.
9) A fruit fly and a banana each share about _____ of our DNA code.
10) A genetic code is the sequence of letters of the 4 _____.

OBJECTIVE:

Write the Objective:

BJECTIVE:

To better understand heredity, and that reproduction gives rise to likenesses and variations (differences) from parents to offspring, by modeling deoxyribonucleic acid (DNA), viewing DNA and reading Karyotypes. *(MS-LS3)*