March 18, 2019

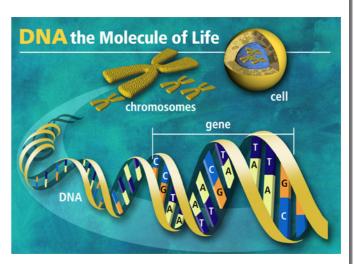
Chapter 6: A Closer look at Cell Division

- 1) **DNA**
- 2) Genes and Heredity/Inherited Traits

Warm-up

How long (in meters) is DNA from one cell if it were stretched in a straight line?





What is DNA ??Video DNA Rap

As you are watching think of the answers to these questions

What is DNA?

Discussion Questions:

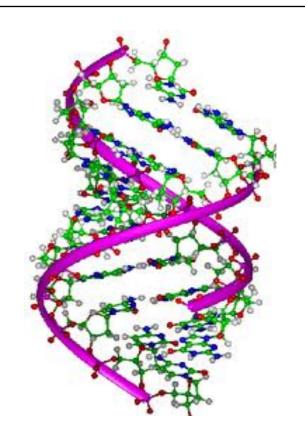
- What is DNA also known as?

 deoxyvibo budeic ocid
- What is the shape of DNA? spiralled ladder, double helix, corksrew
- How is DNA the recipe or blueprint of living things?
 DNA makes RNA → proteins make life

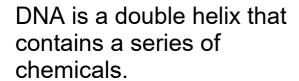
code for life

- What are the four chemicals in DNA?
 Adenine Cytosine Guanine
 Thymine
- How do they pair up? A -T
- Where does DNA live?
 on chromosomes
 inside the nucleus

DNA
Stores the genetic information and provides the directions to guide repair and construct new cells



What do you think the complete name for DNA is? Write your answer in your notebook.	
The complete name for DNA is	
deoxyribonucleic acid	ASE ALCO



These chemicals are arranged like letters in a code. DNA has a four character code

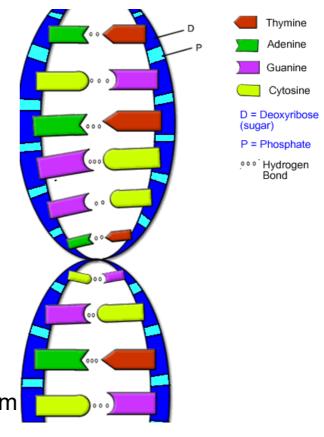
A = Adenine

T= Thymine

C= Cytosine

G = Guanine

These codes combine to form genes.



Chromosomes



threadlike structures that contain the genetic information. Inside the chromosomes there is a chemical called DNA.

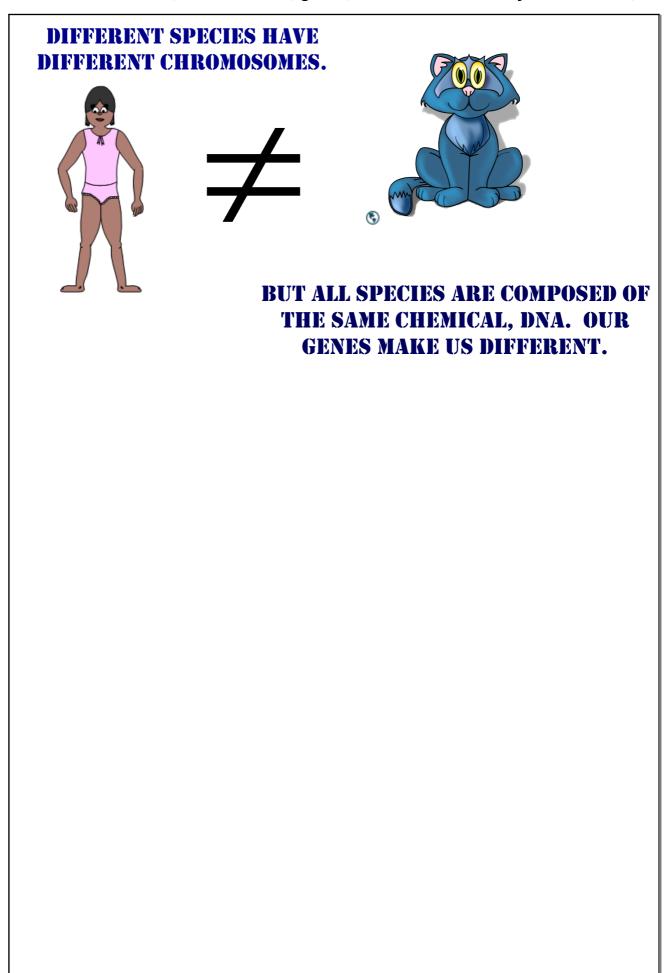
Chromosome

DNA









How many chromosomes do each of the following have?
Humans? Dogs? Mouse? Horse? Earthworm? Cat? Goldfish? 38 Potatoes? 78 40 39 36 104