

Learn Genetics

Go to <http://learn.genetics.utah.edu/>

The Basics

Click on the “*Tour the Basics*” block on the left side of the page.

There are six “Tours” for you to take. As you work your way through the tour record what you learn in your notebook. Follow this note-taking guide as you work, and remember to use topic headings.

What is DNA

What is DNA and how does the molecule hold information?
How do the letters in DNA tell the cell what to do?

What is a Gene

What are genes and what do they do?
Summarize the example given.

What is a Chromosome

Describe the structure of a chromosome.
Compare the number of chromosomes in different species.

What is a Protein

What are proteins and what do they do?
Summarize the example given.
Compare receptor proteins to structural proteins.
What is the relationship between the DNA code and proteins?
What is the role of RNA?
What is the role of a Ribosome?

What is Heredity

Summarize role of DNA and Chromosomes in the inheritance of traits.
Explain how 2 babies from the same parents can inherit different sets of genes.

What is a Trait

Describe three different types of traits that can be inherited.
How are alleles involved in the inheritance of traits?

Activities

Use the “Home” link or return to <http://learn.genetics.utah.edu/>
Click on the “*DNA to Protein*” block.

Complete the activities “*Build a DNA Molecule*” and “*Transcribe and Translate a Gene.*”