

# Genetics Science Learning Center -- Internet Lesson



Objective: Students will browse the Genetics Science Learning Center Website to learn about basic genetics, including the structure of DNA, transcription and translation.

**Site Location:** <http://gslc.genetics.utah.edu/>

Click on the link under **"Basics"** on the left side of the screen called **"Tour the Basics"**

## What is DNA?

2. What does DNA stand for? \_\_\_\_\_
3. Why is DNA called a blueprint? \_\_\_\_\_
4. The "twisted ladder" shape of the DNA molecule is called a \_\_\_\_\_
6. A DNA strand is made of \_\_\_\_\_ which make up \_\_\_\_\_ which make up sentences.
7. These "sentences" are called \_\_\_\_\_

**What is a Gene?** *Hint - Look at the navigation bar at the top, you'll need to click on "What is a Gene" to continue.*

8. What is a gene? \_\_\_\_\_
9. Blood cells use a protein called \_\_\_\_\_ to capture and carry oxygen.
10. When a gene is changed, it is said to be \_\_\_\_\_
11. A mutation in the hemoglobin gene causes what disorder? \_\_\_\_\_

## What is a Chromosome?

12. If you stretched out all the DNA from a single cell, how long would it be? \_\_\_\_\_
13. How many chromosomes are in a human cell? \_\_\_\_\_ a mosquito? \_\_\_\_\_ a carp? \_\_\_\_\_

## What is Heredity?

18. The passing of traits from parents to child is the basis of \_\_\_\_\_
19. Every child receives \_\_\_\_\_ of its chromosomes from his mother and half from his \_\_\_\_\_
20. When a sperm and egg join, they create a single cell called a \_\_\_\_\_
21. Each child inherits a \_\_\_\_\_ set of chromosomes.

## "What is a Trait?"

22. Give an example of a physical trait: \_\_\_\_\_
23. A dog fetching a bone is an example of what kind of trait? \_\_\_\_\_
24. Scientists describe the set of information for each form of trait as an \_\_\_\_\_

**On the back of this sheet of paper write down at least 5 other things you learned from this website.**

# Genetic Science Learning Center Answer Key

**D Keegan**



## **Genetic Science Learning Center Answer Key:**

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