

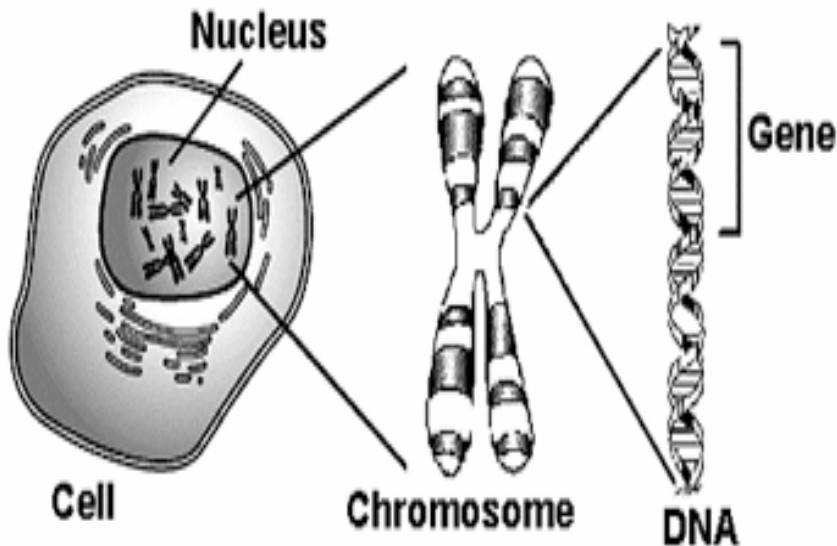
How are traits inherited?

What are the structures and mechanisms involved in the inheritance of traits?

The inheritance of traits such as hair color, height, and some behaviors, have a genetic basis. During reproduction, genetic material (DNA) is passed from the parent to the offspring. In other words, offspring inherit genetic material and therefore traits, from their parents. Use the diagram below to understand the structures involved in inheritance.

Tasks:

1. Draw the diagram in your notebook.



2. Use the sentence frames to describe the diagram.

Chromosomes are found inside the _____ of a _____.

Chromosomes are composed of _____.

A **gene** is a _____.

Arrange each structure from smallest to largest: _____ → _____ → _____ → _____ → _____

3. Use the texts and other resources provided by <http://learn.genetics.utah.edu/content/basics/> to complete the graphic organizer

	Chromosome	Gene	Allele
Definition			
Location			
Function			