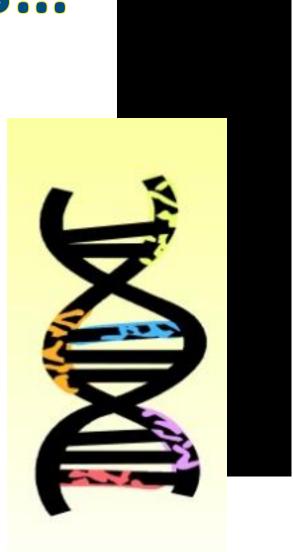


Presents...

Lesson 1: Genetic Basics for Kids

Introduction:

- 1. What is the study of genetics?
- 2. What are genes and chromosomes?
- 3. What are genetically modified organisms (GMOs)?

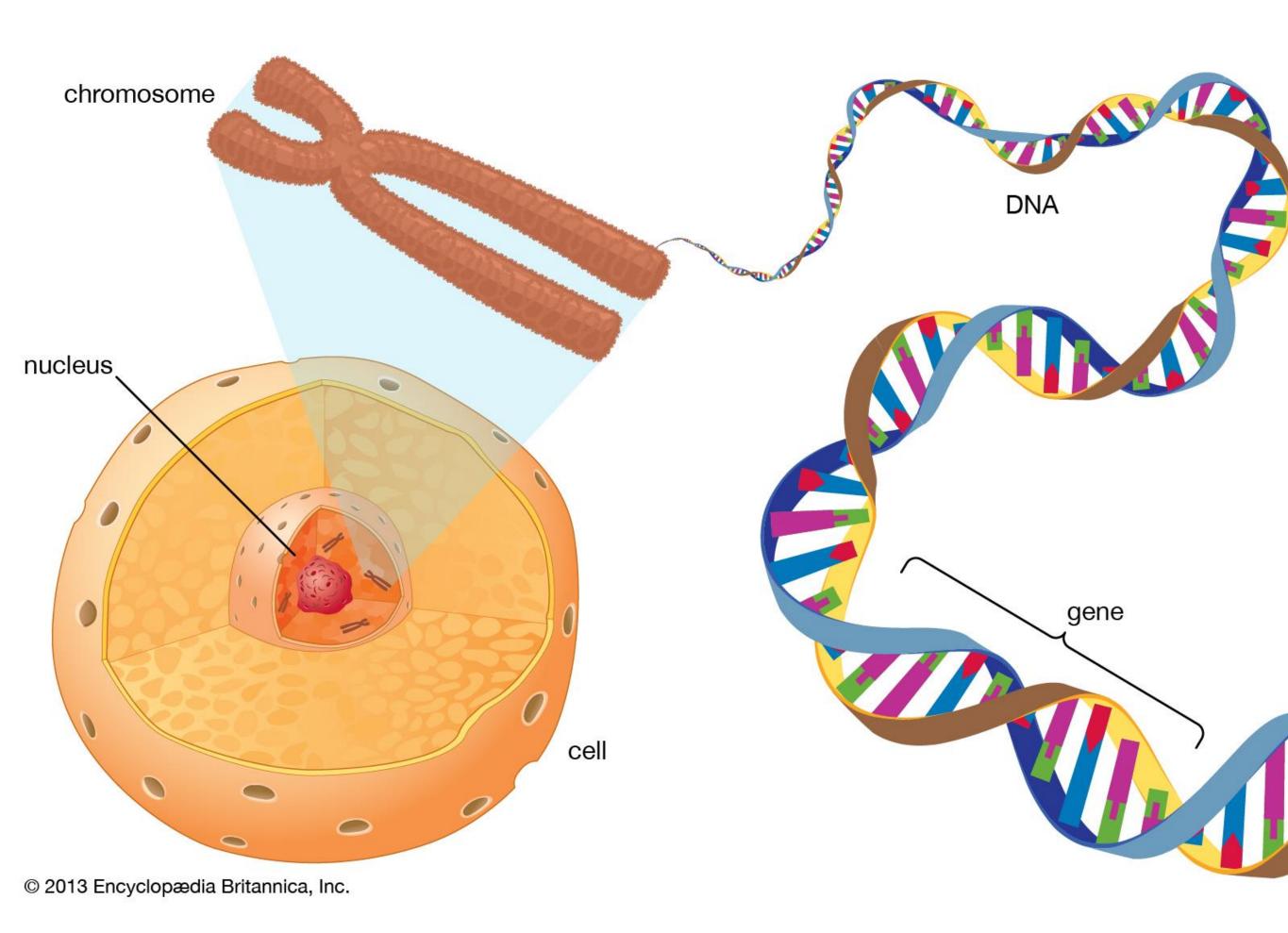


1. What is the study of genetics?

- ✓ **Genetics** is the study of heredity, or how different features are passed from parents to their offspring or kids.
- √ The offspring may have look like their parents but can vary also.
- ✓ Genetics explains how the offspring get some of the features of the parents and not others.

2. What are genes and chromosomes?

- * Genes are the basic units of heredity.
- * They live inside cells that make up living things.
- * They carry information that will make up the individual or plant.
- * Thread-like structures called chromosomes carry the genes.
- * Each chromosome is made of a substance called **DNA** (deoxyribonucleic acid).
- * The genes are short sections of DNA.



3. What are genetically modified organisms (GMOs)?

- * Organisms are plants, animals, bacteria or viruses.
- * GMOs are organisms that have had their DNA changing using scientific tools.
- * Scientists take the trait of one organism and inject it into the DNA of another organism's DNA to change it.
- * GMOs are mostly used to change foods like fruits and vegetables (crops).

 The crops are given traits from other organisms that are not harmed from pesticides.
- * Pesticides are chemicals that kill weeds, insects or fungi.
- * When the GMO plant is sprayed with pesticides, only the weeds or the insects die.



Some GMO Foods & Crops:





- Soy
- Canola
- Corn
- Papaya
- Sugar beets
- Zucchini
- Yellow squash
- Cotton

Lesson 2:

Healthy Soil = Healthy Kids



For more on Genes and DNA visit https://www.slideshare.net/heatherelira/genetics-for-kids-70100804