

GENETICS UNLOCK THE CODE

You are 99.9% percent identical to the person standing next to you. **GENETICS: UNLOCK THE CODE** helps visitors discover the science and wonder behind that fraction of a percent. Through interactive discovery, you'll gain a better understanding of the human genome — the set of instructions that tells your body's cells how to operate. Genetics is what makes you, well ... you!

- At the **DNA Dance-Off!**, hop on an interactive floor to make keratin DNA. See the code — and your results — on a massive LED wall. Compete with others or challenge yourself in the world's first genetic dance-off.
- Copy yourself in the **Duplication Station** — a photo booth with a twist. How will you interact with your group of clones?
- What would you look like with black curly hair and dimples? **Try-a-Trait** is an augmented reality experience that lets you explore what you'd look like with different inherited traits.
- Test your knowledge in the **Genetics Quiz**, using body motion to select answers.
- In **Genes and You**, an interactive book tells the amazing story of you. Flip the pages and watch the story unfold on the screen in front of you.
- Stick out your tongue, smile and check your earlobes and hairline at the **Trait Tree**. Follow the directions to discover how many share your same traits.
- **DNA's Double Helix** — the most recognizable symbol in genetics— has a starring role, at the entrance and unwinding throughout the exhibit.
- Walk under the giant, lighted **Chromosome 17**. Each chromosome contains thousands of our genes; learn about some of them here.
- Explore the visual world of genetics at the **Spin Browser**. Spin the dial to speed up or slow down videos of DNA, mitosis, twins and more.
- From regenerating worms to birds that can't sing, learn crazy but true facts about animal genetics in **Genetics in the Wild**.
- We share 99.9% of our genetic code with other humans. But we also share 85% with cows. At **Genes in Common**, guess how much we are like other species.
- A baby gets half its chromosomes from its mother and half from its father. So is it a boy or a girl? Make a prediction and press a pop-o-matic dome to explore a **Matter of Chance**.
- Will you **Find Your Future** in genetics? Investigate jobs by watching videos of young professionals to guess their career.
- Explore a geneticist's **Picture of Us** — the karyotype — and take a closer look at six genetic conditions.
- How can a genetic condition make **One Big Impact** on muscle strength? Lift two backpacks to see the difference. In **Muscle Bound**, twist a cylinder to show the science behind the change.
- Read the stories on the **Just Like You** column to better understand a day in the life of local young people with Down syndrome, sickle cell disease, hemophilia and cystic fibrosis.
- Genetics is a small, small world. Peer into digital **Microscopes** to explore chromosomes, blood cells, muscle fibers and more.
- Your body has more than 37 trillion cells, and each one has everything needed to copy itself. Learn all about **What's Inside Our Cells**.

Did you know **Genetics: Unlock the Code** is based on an educational competition submission? Get inspired by the kids with a big idea at **Leawood Elementary**.

