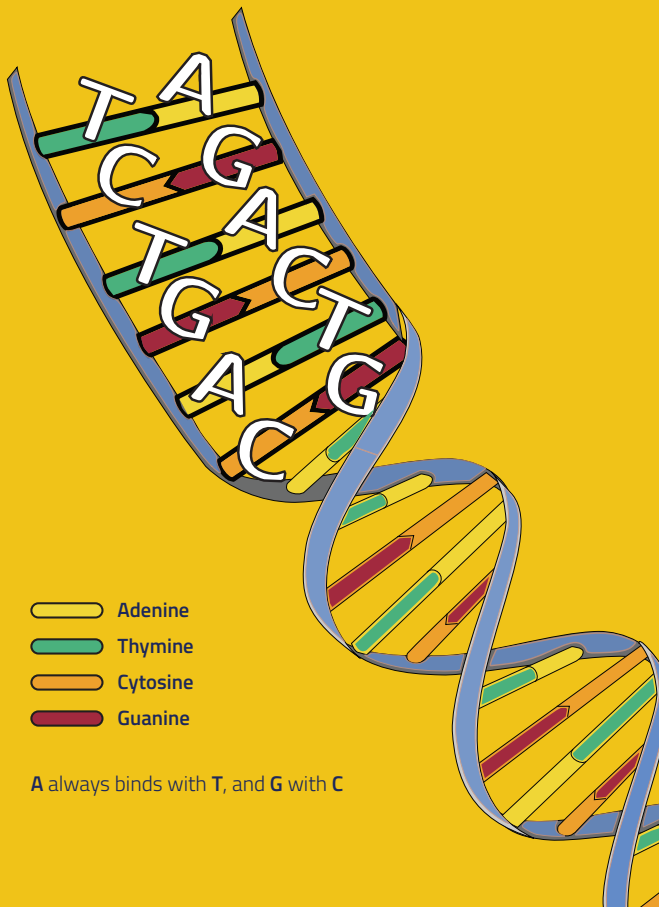


# WHAT IS DNA?

DNA is an abbreviation that stands for deoxyribonucleic acid.

DNA is present in all living things. Also, the structure of the DNA molecule is the same in all living things. When isolated from a cell and stretched out, DNA looks like a twisted ladder (double helix).

The sides of the DNA ladder are called the backbone and the rungs of the ladder are pairs of small chemicals called bases. There are 4 chemical bases in DNA:



Genomics is one of the most rapidly advancing areas of science with research providing solutions to a vast number of global challenges. Genome BC believes in supporting education by providing tools to teach students about this complex topic in new and interesting ways. Geneskool provides a variety of resources and programs that make learning about genomics fun for students in grades 9 through 12.

Visit [genomebc.ca/geneskool](http://genomebc.ca/geneskool)

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## BECOME A CSI FOR A DAY



## Full Day Field Trips on a University Campus



## GENESKool

# GET STUDENTS THINKING LIKE FORENSIC SCIENTISTS

Our rotating cast of 1-2 hour mini CSI mysteries task students with finding the criminal among a number of suspects. Students must use an assortment of forensic methodologies and techniques to identify the culprit.



These fast-paced mini CSI mysteries encourage students to learn and then quickly apply their knowledge of forensic techniques and principles to solve a simulated crime.

Techniques used are dependent on the activity and may include:

- DNA extraction
- Analysis of DNA electrophoresis gels
- Fingerprint analysis
- Blood typing by ELISA assay
- Karyotype analysis
- Interrogation reports

# WHY BOOK A FIELD TRIP?

- Exposure to a university or college laboratory and campus
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- Experience using state-of-the-art equipment that not be available to students and teachers
- Enrich and extend what students have already learned in the classroom
- Inspirational instructors, experienced in lab work are excited to share their experiences!

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