





- **Compl-e-ment** – complement  
– To complete, finish, or fill something up

**NOT this kind...**

- **Compl-i-ment** - compliment  
– “You are the coolest student on this planet!”

What is the  
**COMPLEMENTARY DNA STRAND?**

EXAMPLE 1

3' end 5' end

**ATTGACCATTGATAGCCGAATA**  
**TAACTGGTAACTATCGGCTTAT**

EXAMPLE 2

5' end 3' end

**TCTTCGGAACATTAGTCGAGGC**  
**AGAAGCCTTGTAAATCAGCTCCG**

The “C”s of Genetics

**CHROMATIN**

DNA ladder

DNA double helix

Histones (proteins)  
with DNA coiled  
around them

**CHROMATID**

The two main components of the genetic code

DNA ladder

DNA double helix

Chromatin

2 Chromatids

Coiled up Chromatin

**CHROMOSOME**

Chromatin

2 Chromatids

2 Chromatids = 1 Chromosome

**Centromere**

Chromosome

Chromatid Chromatid

Telomere

Nucleus

**Centromere**

Holds sister chromatids together in a chromosome