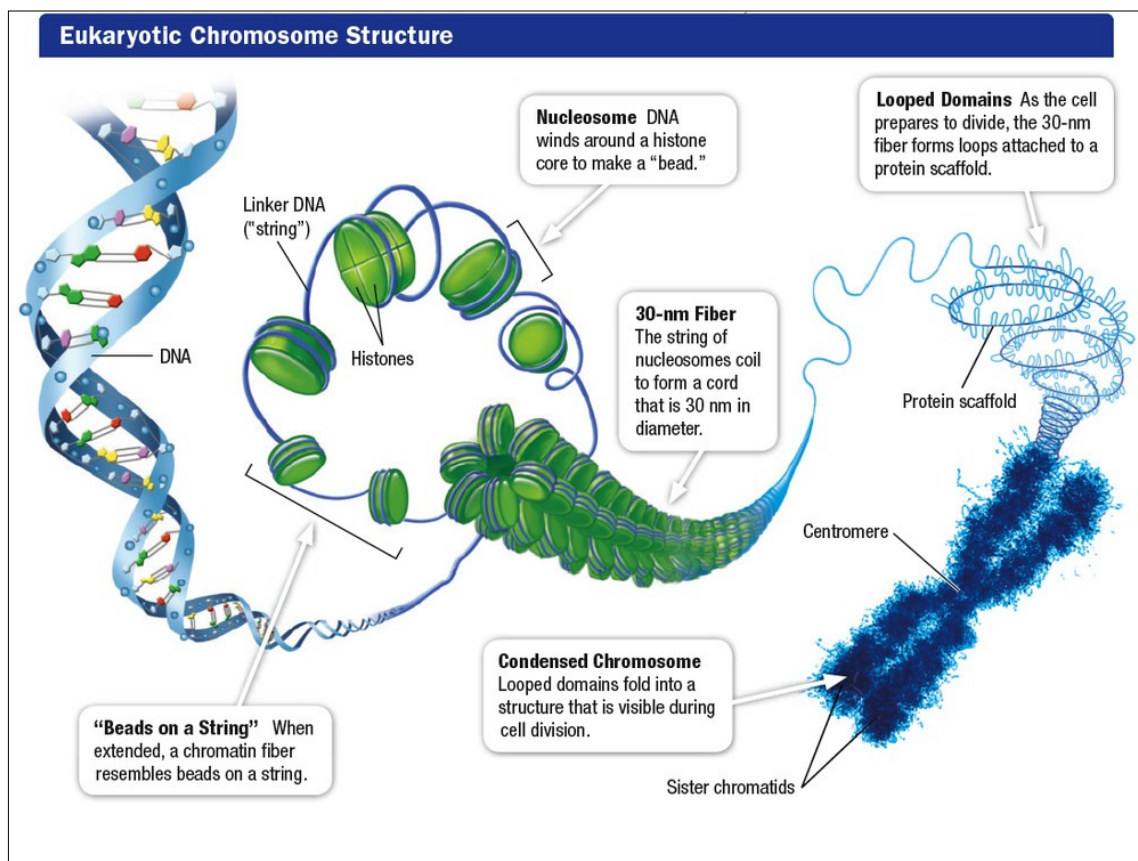


Standard: Students will analyze how biological traits are passed on to successive generations.

Element: Explain the role of DNA in storing and transmitting cellular information.

EQ: How does a chromosome store cellular information?



Video Clip "The DNA Molecule and Chromosomes"

Definitions:

- 1) Histone protein that DNA wraps around to form chromatin
- 2) Chromosome: highly condensed DNA + histones
- 3) Sister Chromatid: one half of a chromosome; both chromatids are identical

- 4) Centromere: where the sister chromatids attach in the middle of a chromosome
- 5) Gene: piece of DNA that has information for one trait

