

Chromatin and Chromosomes

- **Chromatin**—fine filamentous DNA material complexed with proteins
 - Occurs as **46** long filaments called **chromosomes**
 - 6 feet in first half of cell cycle
 - Twice that amount in preparation for cell division
 - In **nondividing cells**, chromatin is so slender it cannot be seen with light microscope
 - Granular appearance under electron microscope

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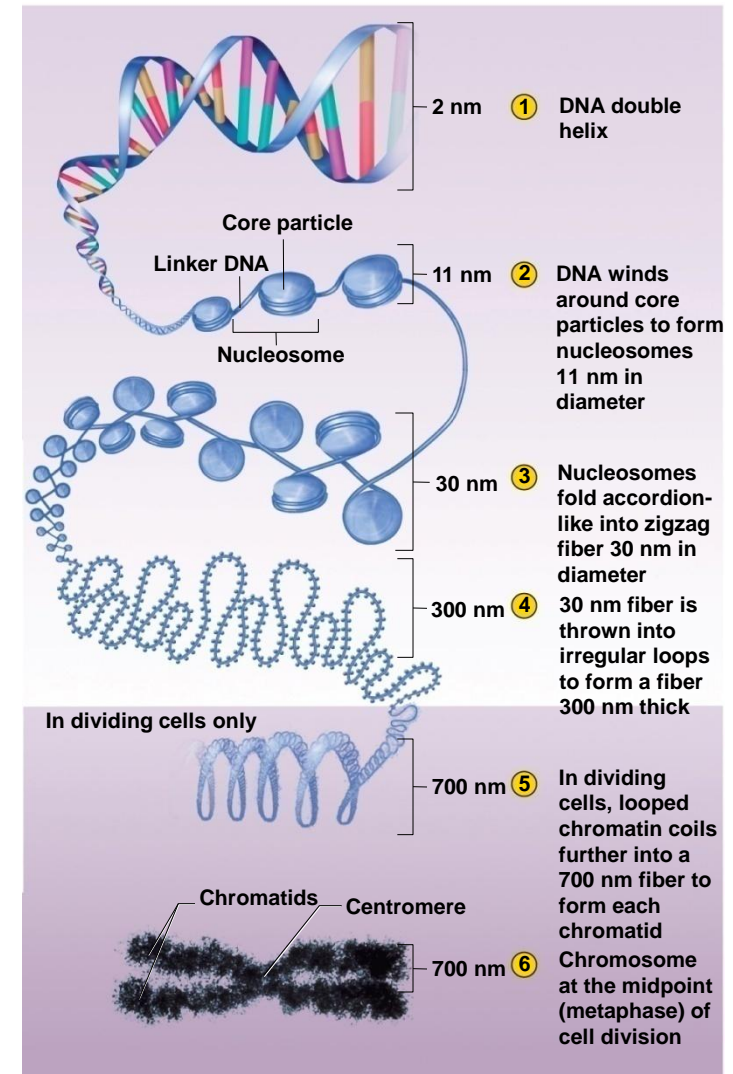


Figure 4.4b