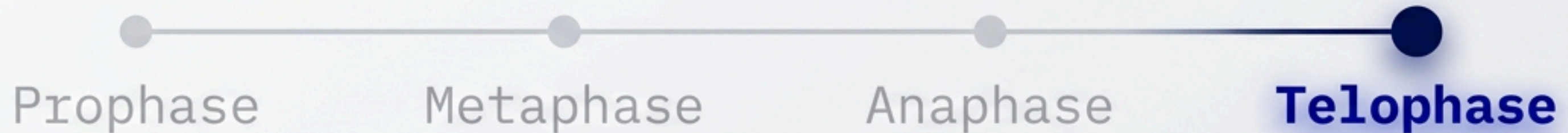
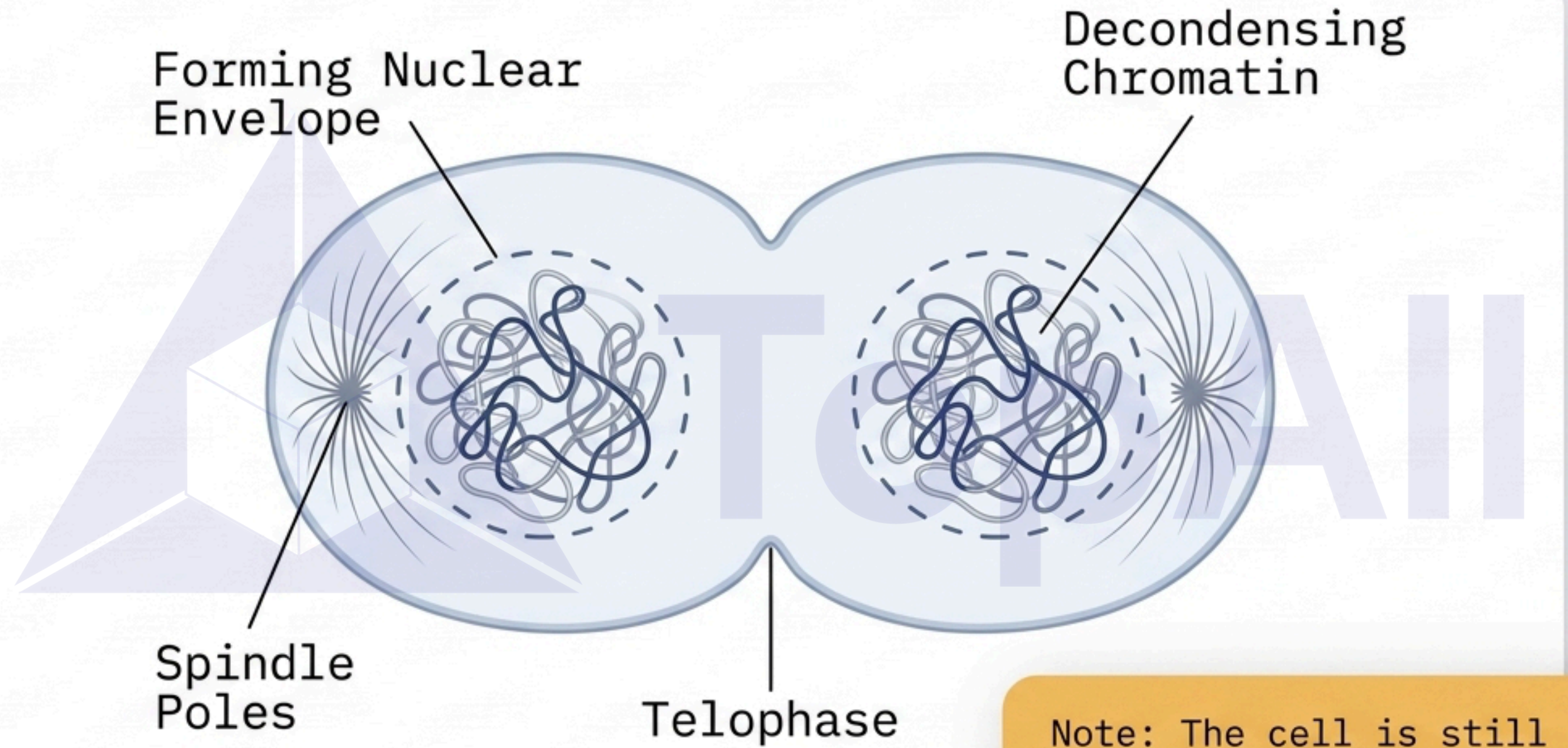


M Phase: Telophase

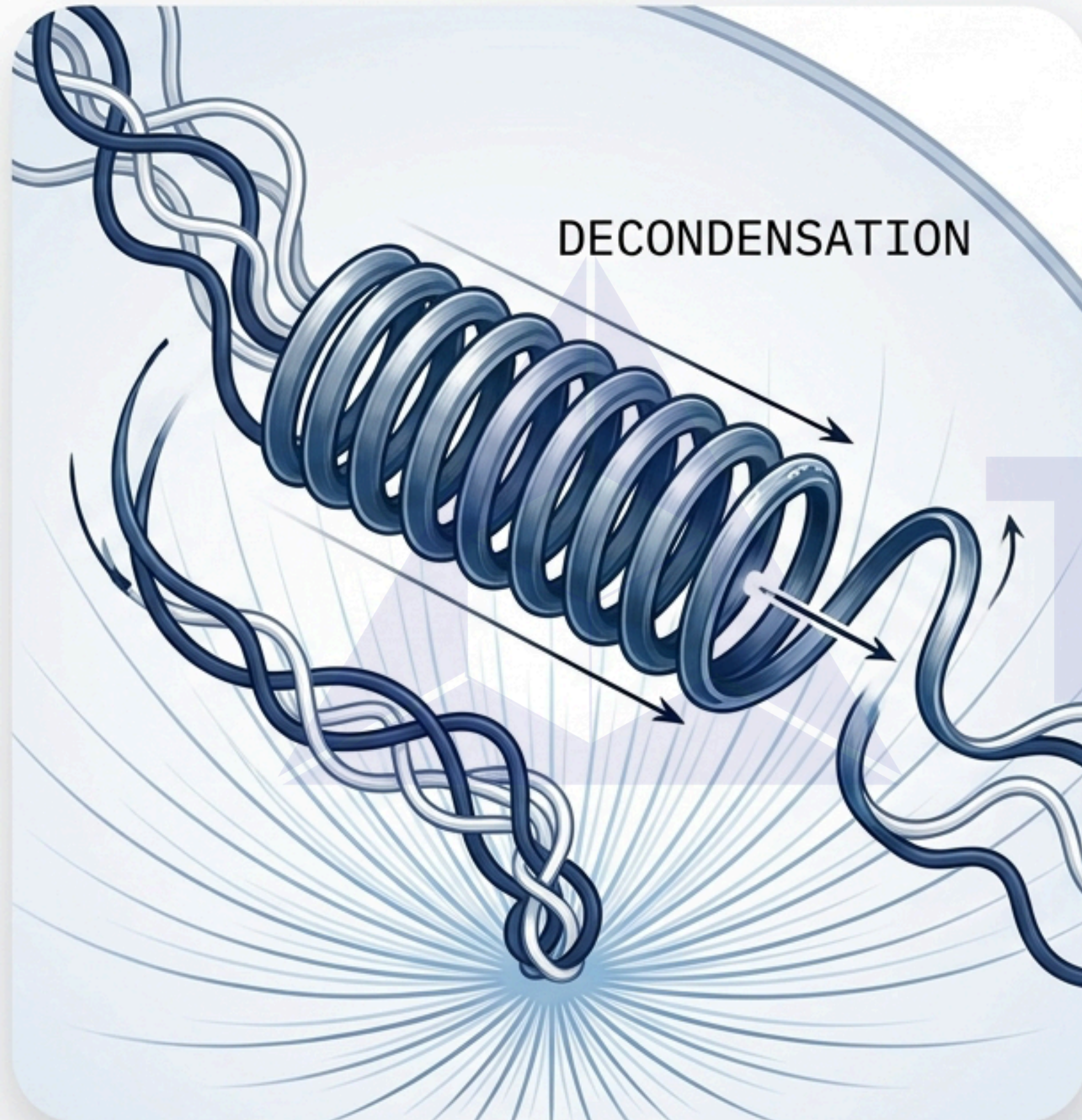
Two New Nuclei Reappear

The final stage of karyokinesis in cell division.





Note: The cell is still single, but now contains two distinct regions of genetic material.



Arrival & Decondensation

Chromosomes reach their respective opposite poles and begin to decondense into chromatin.

Loss of Identity

The individual chromosomes lose their discrete, visible identity and collect as an intertwined mass of chromatin material.



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Cellular Reconstruction

Inventory Checklist



Nuclear Envelope

Develops around the newly gathered chromosome clusters at each pole, effectively forming two new daughter nuclei.



Nucleolus

Reappears within the nucleoplasm of the newly forming nuclei.



Organelles

The Golgi complex and the Endoplasmic Reticulum (ER) reform and resume their structural presence.

The Reverse of Prophase

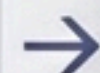
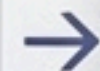
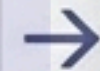
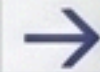
Prophase

Condense into visible structures

Breaks down and disappears

Disappear from the cytoplasm

Tear down the nucleus for division



Telophase

Decondense & lose discrete identity

Reassembles around chromatin

Reappear and rebuild

Rebuild two distinct nuclei

KEY TAKEAWAY

Telophase perfectly mirrors the events of prophase in reverse, concluding karyokinesis by successfully establishing two complete daughter nuclei within a single cell.

Next Step: The cell is now ready for Cytokinesis — the physical division of the cytoplasm that will finally split the single cell into two.



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