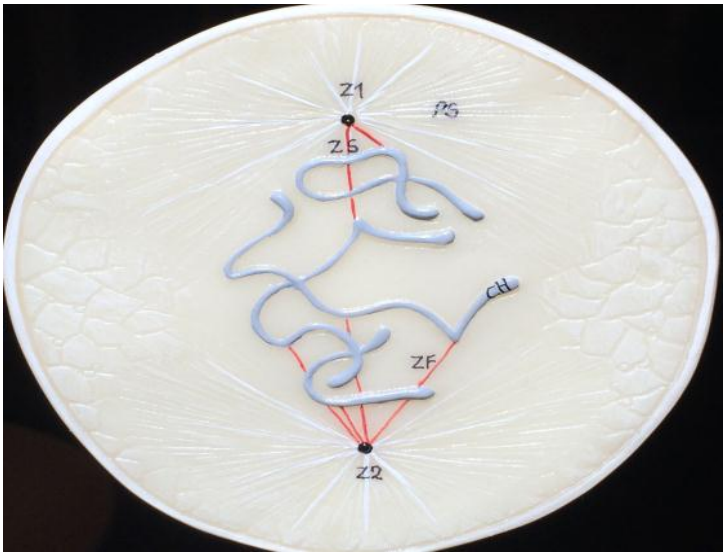
Mitosis Model Key:

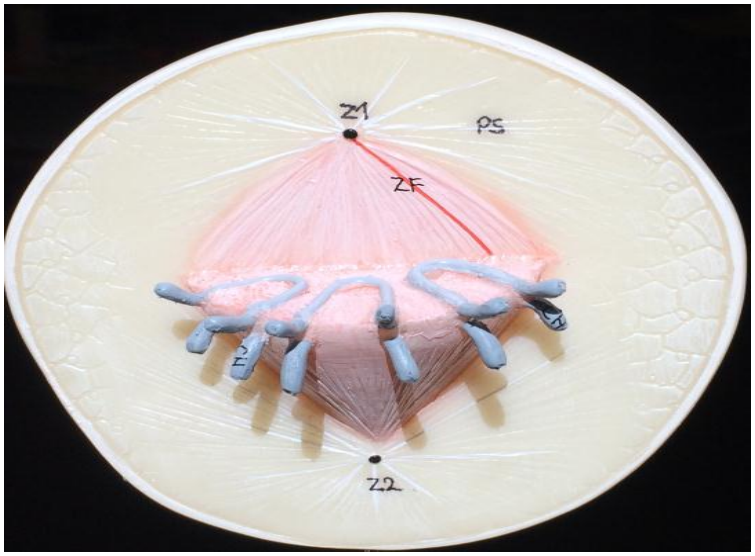
For the audio version of the file, click this link: Mitosis Model Audio



Prophase

Model 1: **Chromatin condenses into chromosomes** in the nucleus (K). Nucleolus (N, red) still present, **Spindle apparatus (Z1, Z2) forms**.

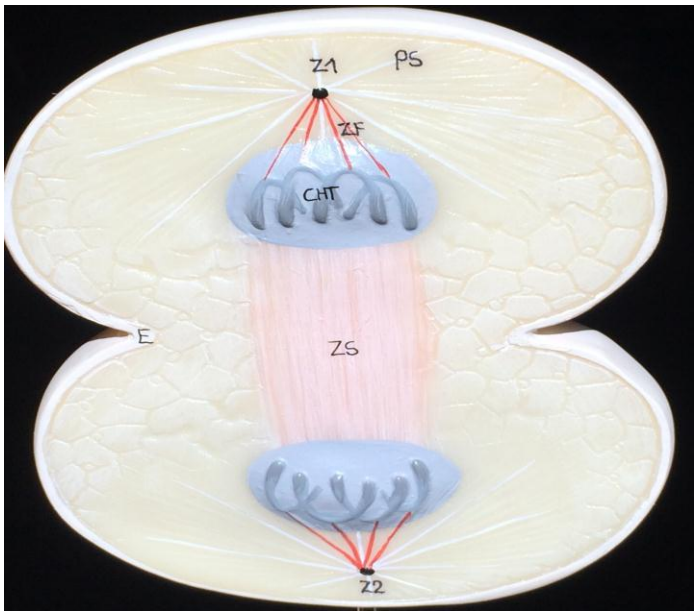
Model 3: **Nuclear membrane disappears**, **nucleolus disappears**, centrosomes (PS) on opposite poles of cell, chromosomes (CH) attach to spindle apparatus and begin migrating to metaphase plate (shown)



Metaphase

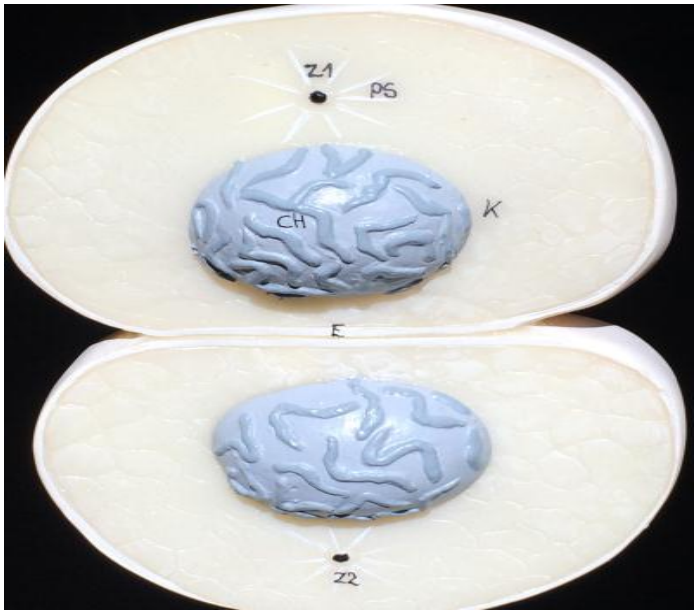
Model 4: **Chromosomes (CH) line up on metaphase plate at the center of the cell (shown)**

Mitosis Model Key:



Anaphase

Model 5: **Centromere on chromosomes (CH) split to begin anaphase.** Spindle (Z1, Z2) contracts and **moves sister chromatids (chromosomes) to opposite poles of the cell**



Telophase

Model 8: **Chromosomes reach opposite poles and clump**; **events of prophase are reversed** (nuclear membrane reforms, nucleolus reforms, chromosomes de-condense, spindle apparatus disappears); **cytokinesis (Division of the Cell is completed)**