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| **Prophase** | **Metaphase** |
| **Anaphase** | **Telophase** |
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| **During this phase of mitosis, spindle fibers attach the centromeres to the centrioles, and chromosomes line up along the middle of the cell.** | **During this phase of mitosis, chromatin condenses into chromosomes. The nuclear membrane disintegrates and spindle fibers form.** |
| **During this phase of mitosis, sister chromatids are pulled apart as the spindle fibers shorten. The sister chromatids are pulled to opposite ends of the cell.** | **During this phase of mitosis, chromosomes relax into chromatin. A nuclear membrane reforms around the chromatin at each end of the cell.** |