***The Cell and Cell Division***

**Key Concept** What are the phases of the cell cycle?

**Directions:** *Complete this table by writing a description in each space provided.*

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| --- |
| **Phases of the Cell Cycle** |
| **Phase** | **Stage** | **Description** |
| Interphase | G1 | **1.** |
|  | S | **2.** |
|  | G2 | **3.** |
| Mitotic phase | mitosis | **4.** |
|  | cytokinesis | **5.** |

**Directions:** *Answer each question or respond to each statement on the lines provided.*

**6.** What is the DNA in the G1 stage called? What does it look like?

**7.** During which stage is DNA in the nucleus duplicated?

**8.** After DNA is duplicated, what is it called? What does it look like?

**9. Compare** the replication of mitochondria to the replication of organelles that do not
have their own DNA.