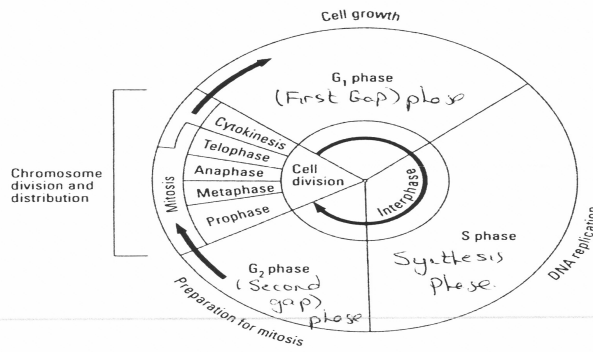


Name: Answer sheet

The Cell Cycle



Outline the events of each part of the cell cycle in the table provided below.

| | Events | Importance |
|----------------------|--------------------------------------|---|
| G ₁ phase | Cell Growth | After cellular division, the cell must grow in size, obtain energy, repair damage and continue all of life's functions. |
| S phase | DNA Replication | Before mitosis begins, the DNA is replicated to ensure a diploid amount of DNA is passed on to each cell. |
| G ₂ phase | Preparation For Mitosis | All materials required to keep the cell alive must be produced before heading into Mitosis. |
| Mitosis | Chromosome Division AND DISTRIBUTION | Since the DNA was duplicated in interphase, ensures each daughter cell receives a complete set of DNA (diploid) amount. |
| Cytokinesis | Division of the Cytoplasm. | Ensures that each cell receives approximately half of the cytoplasm and all the organelles required by the cell. |