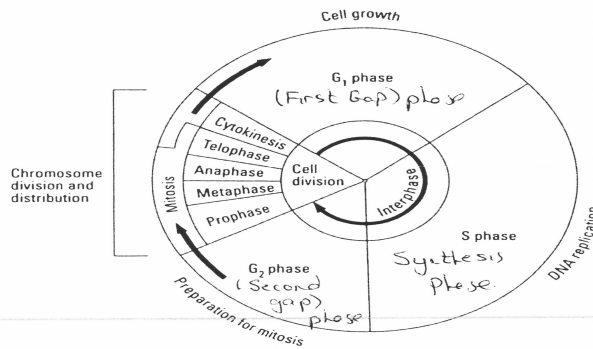


Name: Answer sheet

## The Cell Cycle



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

	Events	Importance
G <sub>1</sub> 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 <sub>2</sub> 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.