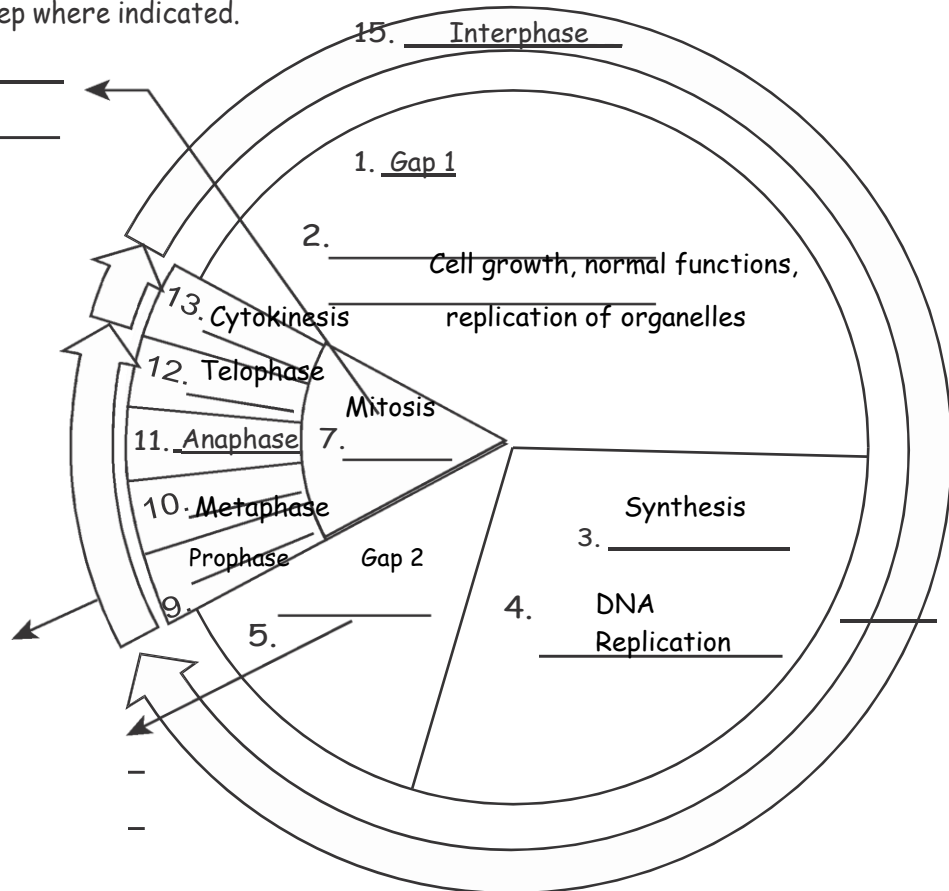


**Cell Cycle**

Label each step and list the major events of each step where indicated.

8. Cell Division

\_\_\_\_\_



14. Mitosis

6. Additional growth

Carrying out of normal functions

**Cells divide at different rates:** Rates of cell division vary widely and are linked to the body's needs. The length of gap 1 varies most widely among cell types. Some cells, such as neurons, enter a stage called G<sub>0</sub>, where cells are unlikely to divide again.

**Cell size is limited.**

- If cells were too small, they could not contain all the organelles and molecules necessary for life.
- If cells were too large, they could not move enough materials across the membrane surface.
- To maintain a suitable size, cell growth and division must be coordinated.

Circle the cube with the greatest surface area to volume ratio.

