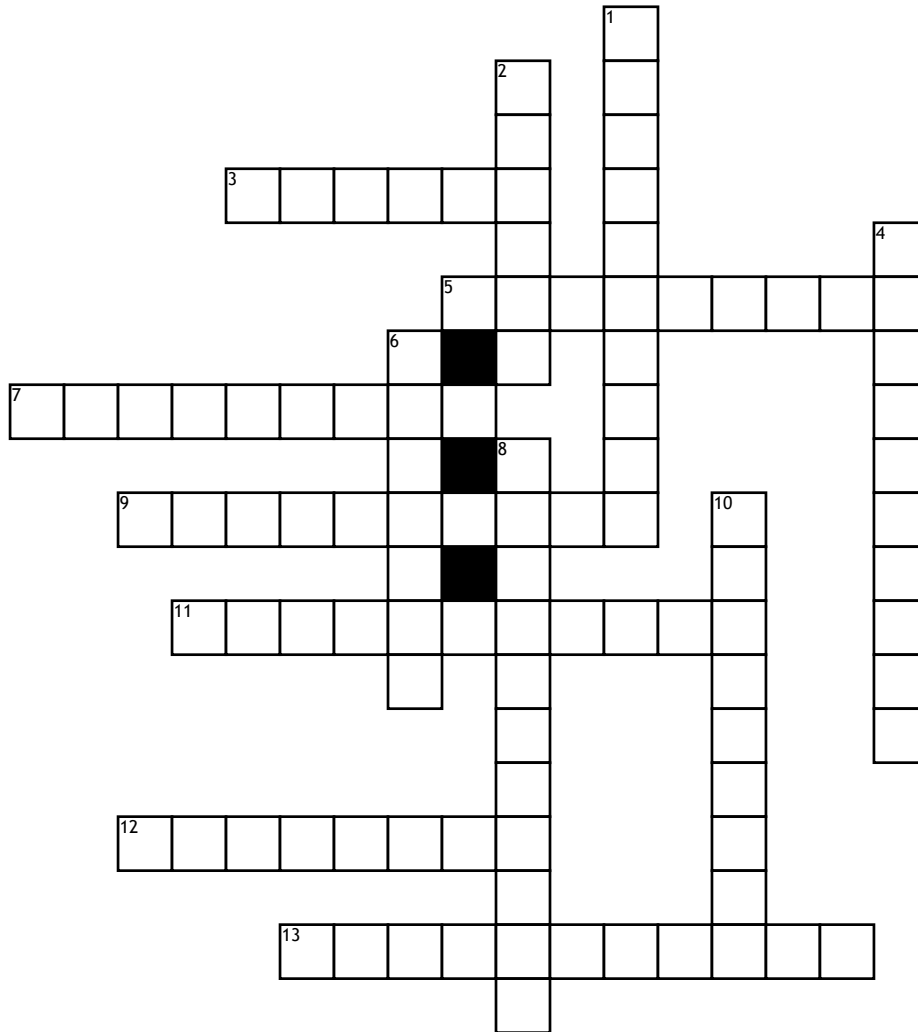


Name: _____

Date: _____

Cell Cycle



Across

- 3. any of a number of proteins associated with the cycle of cell division which are thought to initiate certain processes of mitosis
- 5. the final phase of cell division, between anaphase and interphase, in which the chromatids or chromosomes move to opposite ends of the cell and two nuclei are formed
- 7. the material of which the chromosomes of organisms other than bacteria (i.e., eukaryotes) are composed. It consists of protein, RNA, and DNA
- 9. a mammalian in which some differentiation of cells has occurred

- 11. (of an immature or stem cell) capable of giving rise to several different cell types
- 12. the first phase in mitosis
- 13. stem cells are cells that have the capacity to self-renew by dividing and to develop into multiple specialised cell types present in a specific tissue or organ

Down

- 1. capable of giving rise to any cell type or (of a blastomere) a complete embryo.
- 2. a malignant growth or tumor resulting from the division of abnormal cells

- 4. the region of a chromosome to which the microtubules of the spindle attach, via the kinetochore, during cell division
- 6. a type of cell division that results in two daughter cells each having the same number and kind of chromosomes as the parent nucleus, typical of ordinary tissue growth
- 8. the cytoplasmic division of a cell at the end of mitosis or meiosis, bringing about the separation into two daughter cell
- 10. the second stage of cell division, between prophase and anaphase, during which the chromosomes become attached to the spindle fibers

Word Bank

- | | | | | |
|-------------|------------|------------|-------------|-----------|
| blastocyst | cyclin | mitosis | multipotent | metaphase |
| cytokinesis | centromere | cancer | pluripotent | prophase |
| chromatin | telophase | totipotent | | |