

# THE CELL CYCLE WORKSHEET

Name: \_\_\_\_\_

**Matching:** match the term to the description

A. Prophase      B. Interphase      C. Telophase      D. Metaphase      E. Anaphase

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|--|--|
| _____ 1. The sister chromatids are moving apart.                   | _____ 9. The chromosomes are moving towards the poles of the cell. |
| _____ 2. The nucleolus begins to fade from view.                   | _____ 10. Chromatids line up along the equator.                    |
| _____ 3. A new nuclear membrane is forming around the chromosomes. | _____ 11. The spindle is formed.                                   |
| _____ 4. The cytoplasm of the cell is being divided.               | _____ 12. Chromosomes are not visible.                             |
| _____ 5. The chromosomes become invisible.                         | _____ 13. Cytokinesis is completed.                                |
| _____ 6. The chromosomes are located at the equator of the cell.   | _____ 14. The cell plate is completed.                             |
| _____ 7. The nuclear membrane begins to fade from view.            | _____ 15. Chromosomes are replicated.                              |
| _____ 8. The division (cleavage) furrow appears.                   | _____ 16. The reverse of prophase.                                 |
|  | _____ 17. The organization phase                                   |

**Fill in the blank: Some will be used more than once.**

|                      |                      |                       |                         |
|----------------------|----------------------|-----------------------|-------------------------|
| <b>A. Prophase</b>   | <b>D. Metaphase</b>  | <b>G. Chromatid</b>   | <b>J. Spindle fiber</b> |
| <b>B. Interphase</b> | <b>E. Anaphase</b>   | <b>H. Cytokinesis</b> | <b>K. Cell plate</b>    |
| <b>C. Telophase</b>  | <b>F. Centromere</b> | <b>I. Mitosis</b>     |                         |

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|--|--|
| _____ 18. What phase are daughter cells in as a result of mitosis?   | _____ 23. What are the two parts of cell division?                               |
| _____ 19. During what phase of mitosis do centromeres divide and the chromosomes move toward their respective poles? | _____ 24. What structure forms in prophase along which the chromosomes move?     |
| _____ 20. What is the phase where chromatin condenses to form chromosomes?   | _____ 25. Which phase of mitosis is the last phase that chromatids are together? |
| _____ 21. What is the name of the structure that connects the two chromatids?  | _____ 26. Which phase of the cell cycle is characterized by a non-dividing cell? |
| _____ 22. In a chromosome pair connected by a centromere, what is each individual chromosome called?                 | _____ 27. What structure is produced when protein fibers radiate from            |