**Station #1 – Name That Phase of the Cell Cycle - Answers**

**Part A: Fill in the blank: Write the word on the blank before each statement. Words will be used more than once or not at all.**

interphase cell plate spindle fibres prophase centromere metaphase

anaphase telophase cell plate cytokinesis mitosis cell cycle

chromatid replication chromatin centriole

Interphase 1. What phase are daughter cells in after mitosis?

Anaphase 2. During what phase of mitosis do chromatids separate and move towards opposite poles?

Interphase 3. During which phase do the chromatin condense to form double-stranded chromosomes?

Metaphase 4. In which phase of mitosis do the chromosomes line up in the centre of the cell?

Interphase 5. Which phase of the cell cycle is characterized by a non-dividing cell?

Interphase 6. The period of cell growth and development between mitotic divisions.

Metaphase 7. During which phase of mitosis do the chromosomes line up in the middle of the

 cell?

Interphase 8. During which phase of mitosis do the chromosomes first become visible?

Prophase 9. During which phase of mitosis do the centrioles begin to move to opposite poles?

Prophase 10. During which phase of mitosis do the nucleolus and nuclear membrane

 DISAPPEAR?

Telophase 11. During which phase of mitosis do the nucleolus and nuclear membrane

 REAPPEAR?

Prophase 12. During which phase of mitosis do the spindle fibers BEGIN to form?

Anaphase 13. During which phase of mitosis are the double stranded chromosomes pulled

 apart?

Anaphase 14. During which phase of mitosis do the spindle fibers begin to shorten?

Replication 15. Making a copy of DNA is called this.