Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_KEY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 5: Cellular Reproduction***-Lesson 3*

***Mitosis Vocabulary***

|  |  |
| --- | --- |
| *Vocabulary Term* | *Definition* |
| **Chromatin** | relaxed, uncoiled form of DNA in the nucleus |
| Chromosome | **a tightly coiled strand of DNA and proteins** |
| **Sister chromatids** | identical strands of DNA connected by a centromere |
| Centromeres | **structures that connect sister chromatids** |

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| **Spindle fibers** | microtubule proteins connecting the centromeres to centrioles during mitosis |
| Centrioles | **structures that produce spindle fibers** |

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Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 5: Cellular Reproduction***-Lesson 3*

***Mitosis Vocabulary***

|  |  |
| --- | --- |
| *Vocabulary Term* | *Definition* |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | relaxed, uncoiled form of DNA in the nucleus |
| Chromosome |  |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | identical strands of DNA connected by a centromere |
| Centromeres |  |

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|  |  |
| --- | --- |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | microtubule proteins connecting the centromeres to centrioles during mitosis |
| Centrioles |  |

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*Matching:*

1. \_\_\_\_\_\_\_ Chromatin
2. \_\_\_\_\_\_\_ Chromosomes
3. \_\_\_\_\_\_\_ Sister chromatids
4. \_\_\_\_\_\_\_ Centromere
5. \_\_\_\_\_\_\_ Spindle fibers
6. \_\_\_\_\_\_\_ Centrioles
7. Microtubule proteins that connect to the centromeres of a chromosome during mitosis
8. The relaxed, uncoiled form of DNA in the nucleus
9. Structures that produce spindle fibers at the beginning of mitosis
10. Tightly coiled strands of DNA and proteins
11. Identical strands of DNA connected by a centromere
12. The structure that connects sister chromatids after DNA replication

*Partner Practice:*

1. Label the *chromosome, sister chromatids* and *centromere* on the diagram below



1. Label the *centromere, sister chromatids, spindle fibers*, and *centriole* on the diagram below.

