Name: Date: Period:

Cellular Division

**STUDY GUIDE**

1. Describe pros and cons *asexual reproduction.*

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1. Describe pros and cons of *sexual reproduction*.
2. How do bacteria undergo cellular reproduction?
3. Define *chromosome –*
4. Define *homologous chromosomes –*
5. Define  *locus –*
6. Define *chromatin –*
7. Define *sister chromatids –*
8. Define *centromere –*
9. Define *autosomes –*

1. Define *sex chromosomes –*
2. Define *somatic cells –*
3. Define *diploid –*
4. Define *gametes –*
5. Define *haploid –*
6. Define *karyotype –*
7. What are the 2 phases of the cell cycle?
8. Where does the cell spend most of it life?
9. What are the stages of Interphase?
10. Describe *G1 –*
11. Describe *S –*
12. Describe *G2 –*
13. What are the stages of the Mitotic Phase?
14. How do plants and animals differ during cytokinesis?
15. Provide an example of *growth factor.*
16. Define *anchorage dependent –*
17. Define  *density – dependent inhibition –*
18. Where on the cell cycle to checkpoints occur?
19. Which macromolecule controls signaling the cell to pass checkpoints?
20. Define *cancer cells –*
21. Draw, label, and describe the different stages of Mitosis.
22. Draw, label, and describe the different stages of Meiosis.
23. What are the differences between Mitosis and Meiosis?
24. How does cellular division create genetic diversity?

*Independent assortment –*

*Random fertilization –*

*Crossing over –*

 *Define chiasma –*

*Genetic recombination –*

1. Define *nondisjunction –*
2. Define *trisomy –*

*Provide an example of trisomy*

1. Define *monosomy –*

*Provide an example of monosmy*

1. Describe different types of alterations of the chromosome structure.