

Name: _____

Date: _____

Mitosis and Meiosis Worksheets

1. Compare and contrast mitosis and meiosis. **Compare: Both are involved in making new cells. Both start with 2 sets of chromosomes.**
Contrast: Meiosis creates gametes while Mitosis makes body cells. Mitosis occurs in somatic cells (no synapsis or crossing over) and Meiosis happens in germ cells (synapsis and crossing over take place).
2. Cancer is a disease related to uncontrolled cell division.
Investigate two known causes for these rapidly dividing cells and use this knowledge to invent a drug that would inhibit the growth of cancer cells. **There are two types of cancer, environmental and genetic. The drug that I would invent would target the receptors of the cancer cell and destroy the replication process.**
3. What are chromosomes made of? **Chromosomes are made up of a DNA-proteins called chromatin that is organized into subunits called nucleosomes.**