**Unit 5: Cellular Division**

*Celebration of Learning Review*

**Vocabulary**:

* Anaphase
	+ Asexual reproduction
	+ Benign tumor
	+ Cancer
	+ Carcinogen
	+ Cell cycle
	+ Cell plate
	+ Centrioles
	+ Centromere
	+ Chromatin
	+ Chromosome
	+ Crossing over
	+ Cytokinesis
	+ Diploid
	+ Fertilization
	+ Gametes
	+ Genetic recombination
	+ Haploid
	+ Homologous chromosomes
	+ Interphase
	+ Karyotype
	+ Malignant tumor
	+ Meiosis
	+ Metaphase
	+ Metastasis
	+ Mitosis
	+ Prophase
	+ Sex chromosomes
	+ Sexual reproduction
	+ Sister chromatid
	+ Spindle
	+ Telophase
	+ Zygote

**Topics/Concepts:**

* Asexual vs. Sexual Reproduction
* Gametes (sex cells) vs. Somatic (body cells) Cells
* Chromosomes – what are they made of? autosomal vs. sex chromosomes
* The Cell Cycle
* Mitosis
* Meiosis
* Cancer – benign vs. malignant, metastasis

**Processes**:

 ***- The Cell Cycle***

 - Why do cells want/need to divide?

 - What are the steps to the cell cycle?

 - How many sub-phases are in Interphase?

 - What happens in each of these sub-phases?

-***Mitosis***

 - What is the proper order of phases?

 - Why does the order of the phases matter?

 - Why is it important that mitosis occurs *before* cytokinesis?

 - What happens in each phase?

 - Can you identify a cell in each of the phases?

 - How many sub-phases are in the Mitotic Phase?

 - What is the result of mitosis?

 - Genetically unique or identical?

 - How many chromosomes?

 - What is the difference between an animal cell and a plant cell undergoing mitosis?

 - ***Meiosis***

 - How many times does meiosis go through prophase-telophase?

- What is the proper order of phases?

 - What happens in each phase?

 - Can you identify a cell in each of the phases?

 - What is the result of meiosis?

 - Genetically unique or identical?

 - How many chromosomes?

 - What is crossing over?

 - When does this occur?