**SBI3C**

 Text Reference Schedule

Genetics

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|  | **Topic** | **Learning Target** | **Text Reference & Questions** | **Thinking Questions** |
| One  | Cell Cycle and Mitosis | One | **3.2 The Cell Cycle Describes the Life of the Cell** .**3.3 Mitosis and Cytokinesis** Read pp. 105-110Questions p.111 #2 - 11 | How does cancer develop/interfere with the cell cycle? |
| Two | Gametes, Gametogenesis, Meiosis | Two | **3.4, 3.5, 3.6 Gametes, Gametogenesis, Meiosis**Read pp 112-116Questions p. 112 # 8,9Questions p, 114 #10,11Questions p. 116 # 12,13 | How does non-disjunction occur? |
| Three | Comparing Mitosis and Meiosis | One and Two | **3.7 Mitosis and Meiosis** have similarities and differencesRead pp. 117Questions 14,15 | How closely related are we to apes? bananas? |
| Four | Telomeres | Three | **Telomeres** and the link to Agingpp 118 | Should we create more funding for this area of research?How would society look if we didn’t age? |
| Five | Review Questions |  | **Chapter 3 Review Questions**pp. 119 # 1-6, 8-10pp 125 #1 - 16, 30, 33 |  |
| Six | Genetics & Heredity | Three | **4.1 & 4.2, 4.3 Genetics, Mendel and Traits and Description**Read pp.134Questions p. 135 #1-9 | Traits are complex, which traits do you know have been passed down from two generations ago? |
| Seven | Punnett Squares & Pedigress | Three | **4.4, 4.5, 4.6 Punnetts Squares, Generations of Traits, Mendel’s Laws**pp. 136-140 **Case Study #3**: Make a Diagnosis: Hemophilia p. 141Questions p. 142 #1-5, 11 | How many possibilities are there for variation from 23 chromosomes? |
| Seven | Chromosomal Abnormalities & Genetic Disorders | Four | 5.1- 5.4 **Genetic Disorders**pp. 152-157Questions # 1-5 | Is sunscreen safe? |
| Eight | Reproductive Technology | Five | 5.5 - 5.7 **Biotechnology and Genetics**pp. 159-164 Questions # 13&14**Forensic Biotechnologist** pp165 | Is cloning ethical |
| Review  | Review | 1-6 | Review SheetVocab GridLearning Target - Mind MapCreate your reference sheet |  |