**SBI3C**

Text Reference Schedule

Genetics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **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. 105-110  Questions 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 112-116  Questions p. 112 # 8,9  Questions p, 114 #10,11  Questions 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 differences  Read pp. 117  Questions 14,15 | How closely related are we to apes? bananas? |
| Four | Telomeres | Three | **Telomeres** and the link to Aging  pp 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, 8-10  pp 125 #1 - 16, 30, 33 |  |
| Six | Genetics & Heredity | Three | **4.1 & 4.2, 4.3 Genetics, Mendel and Traits and Description**  Read pp.134  Questions 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. 141  Questions 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. 152-157  Questions # 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 Sheet  Vocab Grid  Learning Target - Mind Map  Create your reference sheet |  |