

Molecular Genetics - Daily Unit Outline

SBI 4U

Day	Topic	Assignment	Chapters
1	The Molecular Basis of Inheritance DNA Structure and Function: A History	Read Chapter 6.1 - p. 272 Q# 1-7 Read Chapter 6.2 - p. 279 Q# 1-9	6.1 6.2
2	DNA Replication and Repair	Read Chapter 6.4 - p. 290 Q# 1-11	6.4
3	DNA Organization in Eukaryotes and Prokaryotes	Read Chapter 6.5 - p. 294 Q# 1-9	6.5
4	DNA Replication and Aging	Read Chapter 6.6 - p. 298 Q# 1-9	6.6
5	From Gene to Protein Mini Investigation: Breaking the Code	Read Chapter 7.1 - p. 318 Q# 1-10 Complete Activity Worksheet	7.1
6	Transcription: DNA-Directed RNA Synthesis	Read Chapter 7.2 - p. 324 Q# 1-10	7.2
7	Translation: Nucleic Acid to Polypeptide	Read Chapter 7.3 - p. 331 Q# 1-10	7.3
8	Mini Investigation: Simulation of Protein Synthesis	Complete Activity Worksheet	
9	Controlling Gene Expression	Read Chapter 7.4 - p. 339 Q# 1-9	7.4
10	Genetic Mutations Investigation 7.5.1 – Mutations: Cause for Concern Research This: Can Mutations Lead to a Longer Life	Read Chapter 7.5 - p. 345 Q# 1-10 Complete Investigation Worksheet Submit via DropBox	7.5
11	Genomes and Gene Organization	Read Chapter 7.6 - p. 349 Q# 1-9	7.6
12	Manipulating and Cloning DNA Mini Activity: Fun with Palindromes	Read Chapter 8.1 - p. 375 Q# 1-8 Complete Activity Worksheet	8.1
13	Activity: Plasmid Mapping	Complete Activity Worksheet	
14	DNA Sequencing	Read Chapter 8.2 - p. 385 Q# 1-11	8.2
15	Genetic Engineering: Redesigning Life Video: Eyes of Nye: GMO's "or" Cloning Research This: Analyzing Concerns about GMO's	Read Chapter 8.3 - p. 390 Q# 1-12 Submit via DropBox	8.3
16	Biotechnology and Health: BLOG	Read Chapter 8.4 - p. 394 Q# 1-11 Complete BLOGGING Assignment	8.4
17	Investigation 8.1.1: pGLO	Complete Lab Worksheet	
18	Unit 3 Review	Unit 3 Review p. 414-421 Study for Test	
19	Unit Test #3		