Name:				:	Start Date://_	
Unit 8: Bi	otechnolo	ogy				
Standards: 2.2e, 5.2h, 2.2 Common Core Learning S	itandards: 9.RIT.1, 9.RIT.3,	9.RIT.4, 9.RIT.5, 9.RIT.6, 9. tivities are available at wwv			, 9.W.9	
Laver C – Basic Un	derstanding (650 P	TS MAX)				
-	50 points to complete Laye	-	В			
videos, textbookAll assignments v	remaining points you need reading, graphic organizers will be graded based on a R	s, handouts, and internet EFLECTION QUIZ.	activities		ts including lecture not	tes,
•	e assignment you will be gr not completed in class can	=	=	on quiz		
,	·	·	i nomework.			
Objectives: By the end of	this unit, I should be able to	o:				
 Explain how spectanalyze relations Summarize the s 	lective breeding can production of the control of t	cut, copy, and move segrons.2c, 2.2e) combinant DNA / transge	ments of DNA, spe	cifically in g	gel electrophoresis to	
MINI-LESSON:					50pts ea	ach
Mini-Lesson 1: Selective Breeding			DATEPOINTS			
Mini-Lesson 2: Gel Electrophoresis			DATEPOINTS			
• Mini-Lesson 3:	Genetic Engineering and	Cloning	DATE	POINT	S	
VOCABULARY ASS	SIGNMENTS					
Selective Breeding	Inbreeding	Genetic Engineering	Restriction Er	izyme	Gel Electrophoresis	;
Recombinant DNA	Plasmid	Transgenic	Clone		Transformation	
VOCABULARY: A On the back of y	OCTIVITY Our goals sheet, complete t	he vocabulary glossary fo	r this unit. PRODU	CT & REFLI	100 ECTION QUIZ	pts
OBJECTIVE 1: SEL	ECTIVE BREEDING					
	E ANCESTRY OF CORN es article on the ancestry of	corn and answer the que	stions provided or	ı the hando	100 out. PRODUCT &	pts
	JING: SELECTIVE BREEDING elearning.com and login. Co		tled "U8.OB1.Sele	ctive Breed	150 ling". Fill out the Castle	•

Go to www.castlelearning.com and login. Complete the assignment titled "U8.OB1.Selective Breeding". Fill out the Castle Learning Reflection to get credit. **PRODUCT & CASTLE LEARNING REFLECTION**

3. GIST SECTION 15.1 SELECTIVE BREEDING (pp. 418-420)

100 pts

Read and GIST (summarize/outline) all of section 15.1 (on a handout). PRODUCT & REFLECTION QUIZ

OBJECTIVE 2: GEL ELECTROPHORESIS

4. WHO ATE THE CHEESE? ACTIVITY

100 pts

Complete the "Who Stole the Cheese?" activity by following the instructions in the worksheet packet. You will need a pair of scissors to cut up the DNA strips. **PRODUCT & REFLECTION QUIZ**

5. CASTLE LEARNING: GEL ELECTROPHORESIS REGENTS QUESTIONS

150 pts

Go to <u>www.castlelearning.com</u> and login. Complete the assignment titled "U8.OB2.Gel Electrophoresis". Fill out the Castle Learning Reflection to get credit. **PRODUCT & CASTLE LEARNING REFLECTION**

OBJECTIVE 3: GENETIC ENGINEERING & CLONING

6. GIST SECTION 15.2: TRANSGENETIC ORGANISMS (pp. 426-427)

150 pts

Read and GIST (summarize/outline) part of section 15-2 (on a handout). PRODUCT & REFLECTION QUIZ

7. BRAINPOP: DOLLY THE SHEEP OR CLONING

50 pts

Go to www.brainpop.com and login (Username: environhs Password: brainpop). Watch the "Dolly the Sheep" or "Cloning" video and take the GRADED QUIZ. E-mail the results (ybell2@schools.nyc.gov or msbellinohses@gmail.com). PRODUCT & REFLECTION QUIZ

8. CASTLE LEARNING: GENETIC ENGINEERING AND CLONING REGENTS QUESTIONS

150 pts

Go to www.castlelearning.com and login. Complete the assignment titled "U8.OB3.Gentetic Engineering and Cloning". Fill out the Castle Learning Reflection to get credit. **PRODUCT & CASTLE LEARNING REFLECTION**

Layer B & A- Analysis & Application

9. LAB: RELATIONSHIPS AND BIODIVERSITY

350 pts

As a class we will complete the Living Environment Regents State Mandated Lab. During these days we will be in Room 5002. YOU MUST COMPLETE THIS LAB IN ORDER TO BE ELIGIBLE TO TAKE THE REGENTS IN JUNE.

Day 1 – 4/29	Day 2 – 4/30	Day 3 – 5/1	Day 4 – 5/2	Day 5 – 5/3				
Go over unit 8 syllabus	Mini-Lesson 1: Selective Breeding	Mini-Lesson 2: Gel Electrophoresis	Mini-Lesson 3: Genetic Engineering and Cloning	Layer C Activities				
Unit 8 Vocabulary	Objective 1 Activity	Objective 2 Activity	Objective 3 Activity					
Day 6 – 5/6	Day 7 – 5/7	Day 8 – 5/8	Day 9 – 5/9	Day 10 – 5/10				
LAYER B & A: LAB: RELATIONSHIPS AND BIODIVERSITY								
Day 11 – 5/13	Day 12 – 5/14	Day 13 – 5/15	Day 14 – 5/16	Day 15 – 5/17				
LAYER DAY	Unit 8 Exam Review	Unit 8 Exam	Test Corrections	ALL LAYERS DUE				