11/21/2014 SLO



Student Learning Objectives

Section 1 : Class	room Context			
la. Name	Amber N. Bollinger	1b. School	Exeter Township Senior High School	
c. District	Exeter Township School District	1d. Class/Course Title	Accelerated Biology	
le. Grade Level(s) 10	1f. Total # Of Students	24	
1g. Typical Class Size	24	1h. Class	Daily for one semester	
5ize 1i. Typical Class Duration	90 minutes	Frequency		
Juration				
Section 2 : Goal				
2a. Goal Statemer	nt			
Compare the pr 2b. PA Standards	ocesses and outcomes of mitotic and meioti	c nuclear divisions.		

View PA Core

Standards

- Bio.B.1.1 Describe the three stages of the cell cycle; interphase, nuclear division, cytokinesis.
- Bio.B.1.1.1 Describe the events that occur during the cell cycle: interphase, nuclear division (i.e., Mitosis or Meiosis), cytokinesis.
- Bio.B.1.1.2 Compare the processes and outcomes of mitotic and meiotic nuclear divisions.
- 2c. Rationale

PA Academic Standards for Science and Technology and Engineering Education identify the concepts of cellular division including meiosis and mitosis as big ideas necessary for Biology education.

Section 3: Performance Measures

Onion Cell Mitosis Laboratory & Mitosis/Meiosis Assessment

- **3b. Type:** District-designed Measures and ExaminationsStudent Projects
- **3c. Purpose:** To measure comprehension of the processes and outcomes of mitotic and meiotic nuclear divisions.
- 3d. Metric: Mastery
- **3e. Frequency:** Administered once per student per semester.
- 3f. Adaptation: Gifted
- **3g. Resources:** Prepared onion root cell slides Microscopes Mitosis Assessment Meiosis Assessment Scantron Lined Paper Pencils
- **3h. Scoring:** Onion Cell Mitosis laboratory guidelines Assessment answer key
- **3i. Personnel :**Certified biology teacher can administer and score all performance indicator tasks.
- **3j. Reporting:** Scores will be reported in skyward for the assessment and laboratory

Section 4: Performance Indicators

11/21/2014

		SLO		
Performance Measure: Mitosis/Meiosis Asses	Onion Cell Mitosis Laborat sment	ory &		
Performance Indicat 4a. PI Targets: All Stu of 80% or higher on th	t or#1 Ident Group: Students earn ar The Onion Cell Mitosis Laborato	n average ory		
	ident Group: Students achieve gher on both the Mitosis Asses			
ction 5 : Teacher Expecta				
Failing	Needs Improvement	Proficient	Distinguished	
0 to 69 %	70 to 79 %	80 to 89 %	90 to 100 %	
of student will meet the PI targets	of student will meet the PI targets	of student will meet the PI targets	of student will meet the PI targets	
Fitalgets	Fitalgets	Fitalgets	Fitalgets	
acher Signature:	Date:	Evaluator Signature:_		Date:
nal Rating				
i Rating Failing	Needs Improvement	Proficient	Distinguish	ned
ii. tes/Explanation				
acher Signature:	Date:	Evaluator Signature:		Date:

View Examples of SLOs