Supplemental Material CBE—Life Sciences Education

Basey et al.

Teaching Style Checklist: Introductory Part of Lab Teacher Observed:	
Date:Time:	
Feature: Lab FormatExpository:1) Direct Instruction on Vocab/ procedures2) Lab	Learning Cycle:1) Inductive: Students review notes/ Create lifecycle
Lecture Content/ InstructionExpository: Direct instruction relating terms to lifecycle of FernLabeled Lifecycle(s) 135 Direct connections between	Learning Cycle: Students investigate lifecycle of "Mystery Organism" 1_3_5 General terms 1_3_5 Ways of Identifying: e.g. after undergoing meiosis, have haploid cells Generalized procedures/ product
Number/ Type of Teacher-Student Interactions E: Teacher as leader Answers questions directly Directs attention towards important conclusions rather than observations Responds to individual students Notes: Level of teacher engagement with class:	LC: Teacher as facilitator/collaboratorRefers students to resources (placemats, notes, etc.)Directs attention towards important observations rather than conclusionsDirects students to discuss with peers
Expository:/ 3 = Learn	ing Cycle:/ 3 =

Teaching Style Checklist: Hands-On Lab	
Date:Time:	
Teacher Observed:	
Feature: Format	
Expository:	Learning Cycle:
1) Lecture 2) Lab	1) Inductive: Students review notes/ Create lifecycle2) Lecture: Connections to terms3) Practice: Students revise lifecycle/ answer questions
Lecture Content/ InstructionExpository: Direct instruction relating terms to lifecycle of FernLabeled Lifecycle(s) 135 Direct connections between structures and vocabulary 135 Uses vocabulary to describe lifecycles (all phyla) Direct instruction on Procedures/ product Specific Examples Notes on Instruction:	Learning Cycle: Students relate to lifecycle of "Mystery Organism" 135 Direct connections between fern life cycle and vocabulary 135 General definition of terms 135 Ways of Identifying: e.g. after undergoing meiosis, have haploid cells Generalized procedures/ product Where to find information
Number/ type of Teacher-Student Interactions E: Teacher as leader Answers questions directly Directs attention towards important conclusions rather than observations Responds to individual students Notes: Level of teacher engagement:	LC: Teacher as facilitator/collaboratorRefers students to resources (such as placemats, notes)Directs attention towards important observations rather than conclusionsDirects students to discuss with peers
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