


Laboratory 3, Activity 3.2: LM Observation of Cells: Marking Criteria

Student Name: _____

Student ID: _____

Marker: _____

Facet of Inquiry	Student Autonomy Level 1 <i>Students research at the level of a closed enquiry and require a high degree of structure/ guidance</i>	Student Autonomy Level 2 <i>Students research at the level of a closed enquiry and require a some structure and guidance</i>	Level 3 <i>Students research independently at the level of a closed enquiry</i>
A. Students embark on inquiry and so determine a need for knowledge/ understanding	<input type="checkbox"/> Identifies an appropriate purpose/reason for undertaking Activity 3.2 (LM Observation of Cells)	<input type="checkbox"/> Clearly & concisely identifies several principle purposes/ reasons for undertaking Activity 3.2 (LM Observation of Cells)	
B. Students find/generate needed information/data using appropriate methodology	Generally follows methods/ protocols, yet some aspects omitted or incomplete, for: <ul style="list-style-type: none"> <input type="checkbox"/> preparation of a cell smear <input type="checkbox"/> staining <input type="checkbox"/> operation of microscope <input type="checkbox"/> Q9 or Q10 correct 	Rigorously adheres to methods/ protocols for: <ul style="list-style-type: none"> <input type="checkbox"/> preparation of a cell smear <input type="checkbox"/> staining <input type="checkbox"/> operation of microscope <input type="checkbox"/> Q9 & Q10 correct 	
C. Students critically evaluate information/data and the process to find/generate this information/data	<ul style="list-style-type: none"> <input type="checkbox"/> Presents data generated after consideration & evaluation of only part of the overall activity <input type="checkbox"/> Accurate contrast, missing some details, in Q11 	<ul style="list-style-type: none"> <input type="checkbox"/> Presents data based on consideration & evaluation of most or all parts of the activity <input type="checkbox"/> Accurate, detailed contrast in Q11 	
D. Students organise information collected/ generated	<ul style="list-style-type: none"> <input type="checkbox"/> Produces drawings that are partially labelled & depict some structural features of the cells <input type="checkbox"/> Ideas/ data not always presented in a logical sequence within answers 	<ul style="list-style-type: none"> <input type="checkbox"/> Produces drawings that are appropriately labelled & accurately depict most or all observable structural features of the cells <input type="checkbox"/> Ideas/data presented in logical sequence within answers 	
E. Students synthesise and analyse and apply new knowledge	<ul style="list-style-type: none"> <input type="checkbox"/> Understanding of cell structure & function is based on cell smear activity only <input type="checkbox"/> Some valid inference in Q12 or Q13 <input type="checkbox"/> Linkage between cellular features & functions partially explained or incorrect for Q 13 	<ul style="list-style-type: none"> <input type="checkbox"/> Understanding of cell structure & function utilises data obtained from the cell smear activity as well as other sources (e.g. interpretations of tissue section) <input type="checkbox"/> Explanation based on evidence and valid inference in Qs 12 & 13 <input type="checkbox"/> Linkage between cellular features and functions fully explained & accurate for Q 13 	
F. Students communicate knowledge and the process used to generate it, with an awareness of ethical, social and cultural issues	<input type="checkbox"/> Aspects of the student's conduct within the laboratory indicate some awareness of safe practice protocols	<input type="checkbox"/> Student's conduct within the laboratory indicates a thorough awareness and understanding of safe practice protocols	