

Grader _____

Student _____

Halobacterium Investigation Plan Grader

Investigation Attributes	Description of Attribute	Value Point	Score
Hypothesis	The hypothesis must include a prediction of the effect of the manipulated variable on the responding variable	1	
Reason	The hypothesis must include a cause-effect reason for the prediction	1	
Materials	A list of the minimum materials needed to perform the procedure must be listed in this section	1	
Procedure	The written or diagrammed procedure is evaluated as follows:	Up to 7	
Two Controlled Variables (kept the same)	At least two controlled variables (kept the same) must be identified or implied in the procedure or the materials list	1	
Manipulated (changed) Variable	Only one manipulated (changed) variable is identified or implied in the procedure	1	
Responding (dependent) Variable	The responding variable is identified or implied in the procedure	1	
Record Measurements	The procedure states or implies measurements are recorded periodically or gives a data table The phrase 'take measurement' or 'collect data' cannot be used to mean record.	1	
Trials are Repeated	More than one trial is planned to measure the growth of halo (responding (dependent) variable)	1	
Experimental Control Condition	An experimental control is discussed	1	
Logical Steps	The steps of the procedure are detailed enough to repeat the procedure effectively	1	
10 possible			