Inquiry Lab

Group Roles (10 min suggested time)

Work with your group to define the roles that each group member will play over the course of this lab. We'll discuss potential roles in class before we get started.

Group Member	Role

Question (10 min suggested time)

Work with your group to review all of your questions and decide on a single question that your group will investigate?

Experimental Design (20 min suggested time)

Work with your group to complete the experimental design diagram on the back of this page that will help you answer your question.

Critical Element	Not Attempted (0)	Novice (1)	Practitioner (2)	Expert (3)
Stating IV and DV	Left blank or	Some error in	Identifies both the	Identifies the IV and
with justification	response is	stating the	IV and	DV correctly and
	completely	IV and DV	DV correctly but	provides
	inaccurate		support	sufficient reasoning
			may lack sufficient	for support
			reasoning	
Stating a	Left blank or	Shows some	Shows a clear	Shows and
hypothesis with	response is	cause and effect	cause and effect	supports a clear
justification	completely	but errors		cause and
	inaccurate	exist		effect with
				sufficient
				reasoning
Identify	Left blank or	Begins to identify	Identifies	Identifies
Appropriate	response is	appropriate	appropriate	appropriate
Constants	completely	variables but	variables	variables and
	inaccurate	errors exist		provides
				sufficient reasoning
				for support
Correctly identifies	Left blank or	Begins to identify	Identifies	Identifies
the Control	response is	appropriate	appropriate	appropriate
	completely	variables but	variables	variables and
	inaccurate	errors exist		provides
				sufficient reasoning
				for
				support

Title:		
Hypothesis:		
IV:		
Levels of the IV: (indicate control) Repeated Trials:		
DV:		
Constants:		

Procedure (20 min suggested time)

Work with your group to write a 5-8 (or more) step procedure that you will use to answer your question.

Critical Element	Not Attempted (0)	Novice (1)	Practitioner (2)	Expert (3)
Writing a	Left blank or	Begins to write a	Writes a clear and	Writes a clear and
procedure	response is	procedure though	thorough	thorough procedure
	completely	details are lacking	procedure, results	that should
	inaccurate	and experiment is	may not be	generate
		not be repeatable.	repeatable based	repeatable results
			on level of detail	

Data Table (20 min suggested time)

Work with your group to design a data table where you will collect your data.

Critical Element	Not Attempted (0)	Novice (1)	Practitioner (2)	Expert (3)
Creating a data	Left blank or	Creates a table that	Creates a table	Creates a table
table	response is	contains significant	accurately with	accurately
	completely	omissions and/or	minor omissions	
	inaccurate	inaccuracies	and/or inaccuracies	

Graph

Work with your group to graph the data that you collected.

Critical Element	Not Attempted (0)	Novice (1)	Practitioner (2)	Expert (3)
Creating a graph	Left blank or	Creates a graph that	Creates a graph	Creates an
	response is	contains significant	accurately with	appropriate graph
	completely	omissions and/or	minor omissions	accurately
	inaccurate	inaccuracies	and/or inaccuracies	