DATE:

NAME:

BLM A-3

CLASS:

ASSESSMENT

Designing an Experiment Checklist

Criteria	Assessment						
	Self			Teacher's			
	No	Sometimes	Yes	No	Sometimes	Yes	
The statement of the problem explains the need for the experiment.							
The experimental design tests an hypothesis and/or a prediction.							
3. The hypothesis is a simple statement that reflects the observations.							
A prediction can result from the hypothesis.							
5. A thoughtful justification is made for why the hypothesis and prediction can serve as the basis for an experiment.							
The methods and procedures used in the experiment follow a logical sequence.							
7. The experimental procedure is complete and clear enough that another person could carry it out.							
The independent variable is clearly identified.							
The plan allows for the independent variable to be controlled and measured accurately.							
The dependent variable is clearly identified.							
11. The plan allows for the dependent variable to be measured accurately.							
12. The experimental design uses appropriate units of measurement.							

DATE:

NAME:

CLASS:

ASSESSMENT

Designing an Experiment Checklist

BLM A-3 (continued)

	Assessment							
Criteria		Self			Teacher's			
	No	Sometimes	Yes	No	Sometimes	Yes		
13. The experiment includes proper controls.								
14. Sources of error are noted, and a thoughtful discussion of reducing errors is made.								
A complete list of required materials is provided.								
16. A strategy to use repeated trials and measurements is described.								
17. Experimental design includes safety concerns and precautions.								
18. The lab notes are neat, presentable, and well organized.								
19. If needed, a neat, fully labelled diagram is included.								
20. Analysis includes all the data.								
21. Data are organized in a way that makes them easy to read or access (i.e., in charts, graphs, etc.).								
22. Key terms and complete sentences are used.								
23. Instructions are provided for proper clean-up and disposal of wastes.								