

Assessment Rubric 4: Design Investigation

CRITERIA	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Initiating (Identifying a problem)	<ul style="list-style-type: none"> Demonstrates limited understanding of the task 	<ul style="list-style-type: none"> Demonstrates a partial understanding of the task 	<ul style="list-style-type: none"> Demonstrates an understanding of the task 	<ul style="list-style-type: none"> Demonstrates a thorough understanding of the task
Planning	<ul style="list-style-type: none"> Requires significant assistance to develop a workable plan 	<ul style="list-style-type: none"> Requires some assistance to develop a workable plan 	<ul style="list-style-type: none"> Develops a workable plan 	<ul style="list-style-type: none"> Develops a thorough and flexible plan
Carrying Out the Plan (Building)	<ul style="list-style-type: none"> Requires significant assistance to follow the plan 	<ul style="list-style-type: none"> Requires some assistance to follow the plan 	<ul style="list-style-type: none"> Follows the plan while developing the product 	<ul style="list-style-type: none"> Adapts the plan while developing the product
	<ul style="list-style-type: none"> With significant assistance uses tools, equipment and materials correctly 	<ul style="list-style-type: none"> With some assistance uses tools, equipment and materials correctly 	<ul style="list-style-type: none"> Uses tools, equipment and materials correctly and with only occasional assistance 	<ul style="list-style-type: none"> Independently uses tools, equipment and materials correctly
	<ul style="list-style-type: none"> Requires constant reminders to follow safety procedures 	<ul style="list-style-type: none"> Requires some reminders to follow safety procedures 	<ul style="list-style-type: none"> Follows safety procedures with only occasional lapses 	<ul style="list-style-type: none"> Routinely follows safety procedures
	<ul style="list-style-type: none"> Requires significant assistance to modify the plan 	<ul style="list-style-type: none"> Requires some prompting to modify the plan 	<ul style="list-style-type: none"> Appropriately modifies the plan as new learning is acquired 	<ul style="list-style-type: none"> Incorporates new learning in a conscious way to improve the plan
Testing	<ul style="list-style-type: none"> Conducts insufficient testing on the product 	<ul style="list-style-type: none"> Conducts some simple tests on the product 	<ul style="list-style-type: none"> Conducts appropriate and sufficient tests on the product 	<ul style="list-style-type: none"> Conducts exhaustive testing on the product
Recording	<ul style="list-style-type: none"> Records insufficient data and often omits units of measure 	<ul style="list-style-type: none"> Records some data but may omit appropriate units of measure or be disorganized 	<ul style="list-style-type: none"> Records data using appropriate units of measure in an organized manner 	<ul style="list-style-type: none"> Systematically records data using appropriate units of measure
Evaluating	<ul style="list-style-type: none"> Conducts intermittent analysis of data; analysis does not always relate to data 	<ul style="list-style-type: none"> Conducts limited analysis of the data 	<ul style="list-style-type: none"> Conducts some analysis of the data; may modify the product based on the analysis 	<ul style="list-style-type: none"> Thoroughly analyzes the data; modifies the product appropriately, based on the analysis
Communicating	<ul style="list-style-type: none"> Displays some information but without clear organization 	<ul style="list-style-type: none"> Displays information but may lack organization 	<ul style="list-style-type: none"> Displays information in an organized way 	<ul style="list-style-type: none"> Displays information in a skillfully organized way
	<ul style="list-style-type: none"> Provides incomplete and confusing explanations 	<ul style="list-style-type: none"> Provides explanations that are partially complete and correct 	<ul style="list-style-type: none"> Provides explanations that are generally correct but lack detail or completeness 	<ul style="list-style-type: none"> Provides explanations that are correct and detailed