Action Project Rubric

1) Identifies and summarizes the problem/question to be investigated						
Inadequate	Minimally Developed	Moderately Developed	Substantially Developed			
Question identified is too broad or	Has identified an appropriate topic	Uses prior knowledge to identify a	Uses prior knowledge to identify a			
vague to provide a coherent	but be studied, but lacks a clearly	question to be studied. Has a	question to be studied. Has a			
objective	stated objective.	clearly stated objective.	clearly stated objective.			
	Organized as a catalogue of information about the topic rather than pointing toward an objective.	Breaks questions down into smaller steps, but has not identified all the complexities and nuances inherent in the question.	Breaks question down into a series of steps that will lead to the objectives to be addressed in the action. Identifies complexities and nuances in the question.			
	2) Identifies existing, relevant knowledge and views					
Inadequate	Minimally Developed	Moderately Developed	Substantially Developed			
Review of relevant knowledge is	Uses some appropriate sources to	Uses appropriate sources to	Provides a thorough and relevant			
seriously incomplete. Inadequate	discover what is already known	discover what is already known	literature review. Excellent variety			
variety of sources.	about the system/problem, but	about the system/problem, but does	of sources.			
	discussion omits important aspects	not make clear connections between				
Major issues are ignored.	of the problem.	this information and the objectives	There are clear linkages among the			
Many factual errors or inconsistencies		o be investigated. Adequate variety of sources.	information and to the objectives under consideration.			
inconsistencies		Most information is factually	All information is factually correct.			
		correct.	All illiormation is factually coffect.			
3) Analysis/Synthesis						
Inadequate	Minimally developed	Moderately developed	Substantially developed			
Vague discussion of detail.	Vague discussion of detail.	Adequate discussion of detail	Excellent discussion of detail.			
Lack of insight/analysis	Little insight/analysis; that which is	Adequate depth of insight/analysis	Impressive depth of insight/analysis			
	provided is conventional or					
	underdeveloped.					
4) Draws sound inferences from previous research that lead clearly to the hypothesis/research question.						
Inadequate	Minimally Developed	Moderately Developed	Substantially Developed			
Draws inferences which are not	Draws reasonable conclusions from	Draws sound conclusions from the	Draws sound conclusions from the			
justified.	the previous research, but does not	previous research and	previous research and			
	convincingly connect the objectives	communicates a logical path from	communicates a logical path from			
	to the previous research.	the data to the objectives.	the data to the objectives.			

5) Designs interventions and outcome assessments					
Inadequate	Minimally Developed	Moderately Developed	Substantially Developed		
Action plan provided will not meet	Action is designed with appropriate	Designs sound and focused	Designs sound and focused		
the objectives, does not address	methodology and safety/ethical	intervention and using appropriate	intervention appropriate to the study		
practical issues in implementation,	measures, but the plan contains	safety /ethical measures. Identifies	and using appropriate safety /ethical		
or uses other inappropriate	some obvious and remediable flaws,	relevant constraints.	measures. Identifies relevant		
methodology.	e.g.,	D. H. C. I. C. II.	constraints.		
NT	Quantity of outcome data collected	Data collection is planned carefully	D-4-:		
No outcome measures are planned to test the effectiveness of the	is insufficient for statistical	and with appropriate precision and	Data is collected carefully and with		
intervention.	significance, or there is no consideration of a practical problem	adequate statistical power. Any flaws are relatively minor/excusable	appropriate precision and adequate statistical power. Flaws are not		
The vention.	in implementation.	due to practical constraints.	readily apparent.		
Serious safety/ethical issues are	титристепацион.	due to practical constraints.	readily apparent.		
ignored.		Consideration of the consequences	Plans focus groups or other		
		and limits of the method to be	methods to refine the plan of action.		
Does not recognize the limits or		employed are incomplete.	•		
implications of the method to be			Considers possible criticisms of the		
employed.			action plan and addresses them.		
6) Analyzes data in an appropriate m					
Inadequate	Minimally Developed	Moderately Developed	Substantially Developed		
Analysis of data is	Analysis of data is	Analyzes data via graphs, statistics,	Analyzes data via graphs, statistics,		
incomplete/inappropriate.	incomplete/inappropriate.	and qualitative analysis as	and qualitative analysis as		
	A minimal effort is made to link	appropriate.	appropriate.		
Does not identify assumptions made	between analyses and the project	Linkage between analyses and the	T1 CC		
in the analysis, or alternative	objectives.	project directives is	Identifies assumptions.		
interpretations.	Does not identify assumptions or consider alternative interpretations	underdeveloped. Does not identify assumptions or	Considers alternative interpretations of the data and, if possible, carries		
	consider atternative interpretations	consider alternative interpretations.	out additional		
		consider atternative interpretations.	investigations/supplemental		
			analyses that will allow distinction		
			between these interpretations.		

7) Draws sound inferences and conc	lusions from data		
Inadequate	Minimally Developed	Moderately Developed	Substantially Developed
Draws conclusions which are not	Draws reasonable conclusions from	Draws sound conclusions from the	Draws sound conclusions from the
justified.	the data, but does not convincingly	data and communicates a logical	data and communicates a logical
Does not demonstrate an	connect the conclusions to the data.	path from the data to the	path from the data to the
appropriate understanding of the	Does not demonstrate an	conclusion.	conclusion.
relationship between theory	appropriate understanding of the	Demonstrates understanding of the	Demonstrates understanding of the
outcome.	relationship between theory and	relationship between experiment	relationship between outcome and
	outcome.	and outcome.	theory.
Does not recognize the limits or	Considers consequences of the	Consideration of the consequences	D : d 1: : 64
implications of their conclusions.	conclusions but only in a narrow	and limits of the conclusions are	Recognizes the limits of the conclusion and considers the
	regime.	incomplete.	
			consequences of the conclusions.
			Identifies how the assumptions may
			influence the conclusions.
8) Reflects on own work to assure the	nat conclusions are justified		
Inadequate	Minimally Developed	Moderately Developed	Substantially Developed
Lacks an error analysis.	Prepares an error analysis as	Prepares an error analysis as	Prepares an error analysis as
	appropriate.	appropriate.	appropriate.
Has not considered alternative			
approaches to the intervention or	Has, otherwise, not considered	Critiques the process of intervention	Critiques the process of intervention
alternative conclusions.	possible criticisms of their work.	and/or data gathering and analysis.	and/or data gathering and analysis.
Has not considered possible			Explains why alternative
criticisms of the methodology used.			approaches to the intervention or
\mathcal{L}			alternative interpretations of the
			data were rejected.
9) Suggests steps for further inquiry	Ÿ		-
Inadequate	Minimally Developed	Moderately Developed	Substantially Developed
Has not considered implications of	Has proposed some logical steps for	Identifies questions remaining	Identifies questions remaining
the current work for future	further investigation, but this is	unanswered.	unanswered.
investigations.	clearly incomplete.		
		Proposes next logical steps for	Proposes next logical steps for
		continued inquiry into this system.	continued inquiry into this system.
			Identifies how the conclusions
			might apply to new or different
			situations.
TI:	C4-4- C-'4'1 TL'-1' D-1-''41	1'.f't' 1- 1 C'1' - C1	

This rubric is based on the Washington State Critical Thinking Rubric, with modifications made by Cecilia Shore with the help of Beverley Taylor.