

## CLEAN WATER CHALLENGE SCORING RUBRIC

<b>A. Form a Hypothesis or Question:</b>	<b>NO</b>	<b>YES</b>
1) Did the team form a hypothesis or question?	0	2
2) Is supporting explanation or background science knowledge included?	<i>If no, also award 0 points for questions 3 and 4</i> 0	2
3) Is explanation and background clear and complete?	0	1
4) Is explanation and background relevant and appropriate to task?	0	1
5) Can hypothesis or question be answered or tested using the materials and data provided?	0	2

TOTAL (8 points possible in section A) \_\_\_\_\_

<b>B. Design an Investigation:</b>	<b>NO</b>	<b>YES</b>
6) Does team present a plan for their investigation?	<i>If no, skip to section C</i> 0	2
7) Is background science knowledge or preliminary observations used in the design of the investigation?	0	2
8) Is the plan complete?	0	1
9) Is plan safe, reasonable, and logical?	0	1
10) Is plan communicated so that the investigation can be replicated?	0	2

TOTAL (8 points possible in section B) \_\_\_\_\_

<b>C. Collect and Present Data:</b>	<b>NO</b>	<b>YES</b>
11) Do measurements include correct units?	0	1
12) Are observations recorded?	0	1
13) Are observations recorded that are appropriate to the task?	0	2

TOTAL (4 points possible in section C) \_\_\_\_\_

<b>D. Analyze and Interpret Results:</b>	<b>NO</b>	<b>YES</b>
14) Are reflections made on recorded observations?	0	1
15) Does the team communicate possible changes, or state that there are no changes needed?	<i>If no, also award 0 points for questions 16</i> 0	2
16) Are the changes for the refined model or investigation or reason(s) why no changes are necessary backed up with observations and data or explanation through scientific knowledge?	0	2
17) Is background knowledge about safe drinking water standards and water quality used in analysis of the results?	0	1
18) Does the team communicate insights that are related to the investigation and go beyond the realm of the problem presented?	0	2

TOTAL (8 points possible in section D) \_\_\_\_\_

<b>E. General:</b>	<b>NO</b>	<b>YES</b>
19) Is work presented in logical order?	0	1
20) Is data and written work presented clearly and easily followed?	0	1

TOTAL (2 points possible in section E) \_\_\_\_\_

**CLEAN WATER CHALLENGE**  
**2007 STATE TOURNAMENT SCORE SHEET**

Participant Name(s): \_\_\_\_\_ Raw Score/Rank \_\_\_\_\_

School/City: \_\_\_\_\_

<b>POINTS</b>	Possible	Total
Quiz	10	
Section A	8	
Section B	8	
Section C	4	
Section D	8	
Section E	2	
TOTAL (quiz and sections A-E)	40	
Tiebreaker A: Closest to EPA standard	.5 pt	
Tiebreaker B: Highest score on pre-selected question(s)	.01 pt	
<b>TOTAL</b>		

NOTES:

Judge/scorer: \_\_\_\_\_