Name: Date: Class:

Product Quality Rubric

Trial 1

Total Possible Score: 100 Engineering Quality Points
(Each category is worth 25 points)

TRIAL 1 EVALUATION				
Category	**Criteria**	**Points Earned**	**Max Points**	**Notes**
Flow Rate	**25 pts.:** 1.4 – 0.33 mL/sec **12.5 pts.:** Slightly above or below range **0 pts.:** No flow after 1 min.		25 pts.	
Clarity	**25 pts**.: Improves to 1-0 **20 pts**.: Improves to 2 **15 pts**.: Improves to 3 **10 pts**.: Improves to 4 **5 pts**.: Improves to 5 **0 pts**.: 6 or higher		25 pts.	
Neutralization pH	**25 pts.**: Neutral (pH ~ 7) **12.5 pts.**: pH increases **0 pts.**: No pH change		25 pts.	
Reaction With Copper	**25 pts.:** No reaction after 5 mins. **0 pts.:** Reaction observed		25 pts.	
TOTAL SCORE			**100 pts.**	

Example Student Data Table					
Flow Rate (ml/sec)	**Clarity Level**	**Final pH**	**Copper Reaction?**	**Points Earned**	**Notes**
0.8	2	6.8	No	82.5	Good flow & clarity; pH close to neutral

Name: Date: Class:

Trial 2

Total Possible Score: 100 Engineering Quality Points
(Each category is worth 25 points)

TRIAL 2 EVALUATION				
Category	**Criteria**	**Points Earned**	**Max Points**	**Notes**
Flow Rate	**25 pts.:** 1.4 – 0.33 mL/sec **12.5 pts.:** Slightly above or below range **0 pts.:** No flow after 1 min.		25 pts.	
Clarity	**25 pts**.: Improves to 1-0 **20 pts**.: Improves to 2 **15 pts**.: Improves to 3 **10 pts**.: Improves to 4 **5 pts**.: Improves to 5 **0 pts**.: 6 or higher		25 pts.	
Neutralization pH	**25 pts.**: Neutral (pH ~ 7) **12.5 pts.**: pH increases **0 pts.**: No pH change		25 pts.	
Reaction With Copper	**25 pts.:** No reaction after 5 mins. **0 pts.:** Reaction observed		25 pts.	
TOTAL SCORE			**100 pts.**	

Example Student Data Table					
Flow Rate (ml/sec)	**Clarity Level**	**Final pH**	**Copper Reaction?**	**Points Earned**	**Notes**
0.8	2	6.8	No	82.5	Good flow & clarity; pH close to neutral

Name: Date: Class:

AVG

Total Possible Score: 100 Engineering Quality Points
(Each category is worth 25 points)

FINAL AVERAGE EVALUATION				
Category	**Criteria**	**Points Earned**	**Max Points**	**Notes**
Flow Rate	**25 pts.:** 1.4 – 0.33 mL/sec **12.5 pts.:** Slightly above or below range **0 pts.:** No flow after 1 min.		25 pts.	
Clarity	**25 pts**.: Improves to 1-0 **20 pts**.: Improves to 2 **15 pts**.: Improves to 3 **10 pts**.: Improves to 4 **5 pts**.: Improves to 5 **0 pts**.: 6 or higher		25 pts.	
Neutralization pH	**25 pts.**: Neutral (pH ~ 7) **12.5 pts.**: pH increases **0 pts.**: No pH change		25 pts.	
Reaction With Copper	**25 pts.:** No reaction after 5 mins. **0 pts.:** Reaction observed		25 pts.	
TOTAL SCORE			**100 pts.**	

Example Student Data Table					
Flow Rate (ml/sec)	**Clarity Level**	**Final pH**	**Copper Reaction?**	**Points Earned**	**Notes**
0.8	2	6.8	No	82.5	Good flow & clarity; pH close to neutral