

Can't Judge a Powder – Part 2

Allendale Invitational – February 24, 2024

Team: _____ #: _____

	Question	Your Observation Number(s)	Scorer's use only					
			5	4	3	2	1	0
A	Were the grains of the powder all the same size?		5	4	3	2	1	0
B	Were the powder grains brittle?		5	4	3	2	1	0
C	When wafted, did the powder have an odor?		5	4	3	2	1	0
D	What was the color of the powder?		5	4	3	2	1	0
E	Was the substance more or less dense than water?		5	4	3	2	1	0
F	Was the powder soluble in water?		5	4	3	2	1	0
G	If the powder did dissolve in water, was the solution able to conduct electricity?		5	4	3	2	1	0
H	What was the pH of the solution of the powder in water?		5	4	3	2	1	0
I	Was the powder soluble in HCl?		5	4	3	2	1	0
J	What color was the solution of the powder in HCl?		5	4	3	2	1	0
K	When the powder was added to NaOH, was a precipitate formed?		5	4	3	2	1	0
L	What was the pH of the solution of the powder mixed with NaOH?		5	4	3	2	1	0
M	Is the reaction between the powder and H ₂ O ₂ endothermic or exothermic?		5	4	3	2	1	0
N	When the powder was mixed with H ₂ O ₂ , what color was the resulting solution?		5	4	3	2	1	0
O	If H ₂ O ₂ is added to the solution of the powder in NaOH, was an odor produced?		5	4	3	2	1	0