Properties of Na Grading Rubric

Name_____

LT: Identify physical and chemical properties of sodium (Na)

Date_____Period_____

Score_____/4

Read the 3-proficient column first, then read the 4,2,and 1 descriptions.

CATEGORY	4	⟵ Yes 3 No ⟶	2	1
Materials _____/4	Drawings and descriptions reproduce quantities (how much) and exceptional detail.	All materials and setup used in the experiment are clearly and accurately described.	Most of the materials and the setup used in the experiment are accurately described.	Many materials are described inaccurately or not described at all
Procedure _____/4	Exceptional detail-	All events of the demonstration are clearly identified AND detailed.	Most events of the demonstration are clearly identified AND detailed.	Procedures do not accurately list the steps of the experiment or no procedure given
Drawings/ Diagrams _____/4	Exceptional detail	Clear, accurate diagrams are included and make the experiment easier to understand. Diagrams are labeled neatly and accurately.	Diagrams are included and are labeled.	Needed diagrams are missing important labels.
Physical Properties Of Na _____/4	Exceptional detail… … must include appropriate extensions. Example: Contrast physical properties of other metals like titanium which is exceptionally strong or compare with other alkali metals. Use the periodic table to demonstrate physical properties with location in the table.	6-7 topics discussed ___ Solid at STP ___Grayish white ___Dull surface ___Shiny surface ___Conductor ___Malleable ___Low density	3-5 topics discussed	0-2- topics discussed
Chemical Properties of Na _____/4	Exceptional detail… … include appropriate extensions which compares chemical properties of metals. Example: Compare with other metals which oxidize easily vs. metals that are very slow to oxidize.	Must include top 3 ___Oxidizes very quickly (shiny to dull) ___Produces a base (NaOH) – pink ___Produces hydrogen (boom) Other evidence of reaction / products (at least 3) When added to water: ___Produced a vapor ___Zipped around petri dish ___Hissing sound ___Got smaller	2of the top 3 items accurately discussed At least 2 of These discussed	0-1 items accurately discussed 0-1 items discussed

____ /20 Divide your total by 5. Example: 19÷5=3.8

Here's a trick. Instead of dividing by 5, double the numerator (19X2=38), then move the decimal over 3.8