Summative Exam Chemistry 1-2 Rubric

Question 1 (SC8.1.10 – Students understand basic components of matter)

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| 4Mastery | Demonstrates deeper understanding of substance types |
| 3Proficient | Differentiates between two types of substances , based on chemical symbols, accurately describing both |
| 2Progressing | Describes one type of substance but not the other, based on chemical symbols |
| 1Emerging | Needs assistance differentiating between types of substances when given chemical symbols |

Question 2 (SC8.1.10 – Students understand basic components of matter)

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| 4Mastery | Demonstrates deeper understanding substance naming |
| 3Proficient | Correctly identifies elements in all 3 substances listed |
| 2Progressing | Correctly identifies elements in 1-2 substances listed |
| 1Emerging | Needs assistance identifying elements in the substances listed |

Question 3 (SC8.1.10 – Students understand basic components of matter)

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| 4Mastery | Demonstrates deeper understanding of elements |
| 3Proficient | Correctly defines element , including both parts of the definition  |
| 2Progressing | Correctly defines element, but leaves out one portion of definition |
| 1Emerging | Needs assistance defining element |

Question 4 (SC8.1.10 – Students understand basic components of matter)

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| 4Mastery | Demonstrates deeper understanding of substances |
| 3Proficient | Correctly defines substance, making a connection to matter |
| 2Progressing | Correctly defines substance, no connection to matter |
| 1Emerging | Needs assistance defining substance |

Question 5 (SC8.3.2 – Students explore the nature and history of science)

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| 4Mastery | Demonstrates deeper understanding of Mendeleyev’s organizational pattern |
| 3Proficient | Correctly explains the gaps in Mendeleyev’s periodic table, including details about rows and columns |
| 2Progressing | Correctly explains the gaps in Mendeleyev’s periodic table, including details about EITHER rows or columns |
| 1Emerging | Needs assistance explaining Mendeleyev’s organization of the elements |

1. Question 6 (6-8.W.01b – support claims with logical reasoning, accurate data, and evidence)

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| 4Mastery | Demonstrates deeper understanding of data use in support of conclusion |
| 3Proficient | Connects explanation of data to conclusion accurately, with several data points |
| 2Progressing | Connects explanation of data to conclusion accurately, with one data point |
| 1Emerging | Needs assistance connecting explanation of data to conclusion |

Question 7 (SC8.1.11 – Students evaluate chemical and physical changes in matter)

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| 4Mastery | Demonstrates deeper understanding of chemical reactions |
| 3Proficient | Correctly identifies all 3 of the substances the undergo chemical reactions AND offers correct explanation |
| 2Progressing | Correctly identifies 1 or 2 of the substances the undergo chemical reactions offers correct explanation |
| 1Emerging | Needs assistance identifying and explaining chemical reaction |