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| *2023 MCAS Competency Portfolio*  WORK DESCRIPTION  for High School Competency Portfolio in Science and Technology/Engineering **CHEMISTRY** **(Attach one WORK DESCRIPTION to each work sample in the portfolio.)** | | | | | | | |
| **Student’s Name:** | |  | | **Date work was produced:** | | |  |
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| A minimum of **ten Chemistry standards** must be documented in all, with each topic in this discipline addressed at least once in the portfolio. Standards are based on the [*2006 Science and Technology/Engineering Curriculum Framework*](http://www.doe.mass.edu/frameworks/archive.html)*.*  **Each work sample must include:**   * a clear description of the activity, a summary of the student’s observations, an explanation or analysis of findings, and conclusion(s). Drafts may also be included. * a score (% accurate) for each piece of student work with all incorrect answers marked. * work samples produced as independently as possible by the student, with all corrections clearly marked and a description of the assistance given to the student. The level of independence must be indicated below. * Work may not be corrected by the teacher and submitted as the student’s own work. | | | | | | | |
| **Please indicate the topic(s) and learning standard(s) documented in the attached work sample.** | | | | | | | |
|  | **Properties of Matter** | | 1.1  1.2  1.3 | | | | |
|  | **Atomic Structure and Nuclear Chemistry** | | 2.1  2.2  2.3  2.4  2.5  2.6  2.7 | | | | |
|  | **Periodicity** | | 3.1  3.2  3.3  3.4 | | | | |
|  | **Chemical Bonding** | | 4.1  4.2  4.3  4.4  4.5  4.6 | | | | |
|  | **Chemical Reactions and Stoichiometry** | | 5.1  5.2  5.3  5.4  5.5  5.6 | | | | |
|  | **States of Matter, Kinetic Molecular Theory,**  **and Thermochemistry** | | 6.1  6.2  6.3  6.4  6.5 | | | | |
|  | **Solutions, Rates of Reaction, and Equilibrium** | | 7.1  7.2  7.3  7.4  7.5  7.6 | | | | |
|  | **Acids and Bases and Oxidation-Reduction Reactions** | | 8.1  8.2  8.3  8.4 | | | | |
| **ON THE ATTACHED WORK SAMPLE:** | | | | | | | |
| What score did the student receive? (Level of Accuracy = | | | | |  | %) | |
| How much was done independently by the student? (Level of Independence = | | | | |  | %) | |
| If Level of Independence is less than 100%, what type of assistance, coaching, and/or prompting did the student receive on the attached piece? | | | | | | | |
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| Describe any accommodations the student received. (Note: Accommodations do not affect Level of Independence.) | | | | | | | |
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| What was the student asked to do in order to complete the attached piece (i.e., what was the assignment)? | | | | | | | |
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Massachusetts Department of Elementary and Secondary Education