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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.
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| **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