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| *2023 MCAS Competency Portfolio*  WORK DESCRIPTION  for “Next-Generation” High School Competency Portfolio in  **Science and Technology/Engineering** **INTRODUCTORY PHYSICS** **(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 **seven Introductory Physics standards** must be documented: **5** required standards, plus **2** at the discretion of the educator. In addition, **a minimum of 4** **different** [**science practices**](http://www.doe.mass.edu/frameworks/scitech/2016-04.pdf#page=107) must be documented throughout the work submitted in the Introductory Physics portfolio. Standards are based on the [*2016 Science and Technology/ Engineering Curriculum Framework*](http://www.doe.mass.edu/frameworks/current.html)*.*  **Evidence submitted in the Introductory Physics competency portfolio must include:**   * work samples that, taken together, document all aspects of the standard being assessed. Drafts may be included. * a clear description of each activity and an explanation, analysis of findings, and/or conclusion(s). * work samples produced as independently as possible by the student, with all corrections clearly marked. * percent of accuracy for each piece of student work, with all incorrect answers marked. * percent of independence indicated below, plus a description of the assistance given to the student. * Work samples may not be corrected by the teacher and submitted as the student’s own work. | | | | | | | |
| **Below, please indicate the learning standard documented in the attached work sample. Required standards are boldfaced and underlined.** | | | | | | | |
| **Matter and Its Interactions** | | HS-PS1-8 | | | | | |
| **Motion and Stability: Forces and Interactions** | | HS-PS2-1  HS-PS2-2  HS-PS2-3  HS-PS2-4  HS-PS2-5  **HS-PS2-9**  **HS-PS2-10** | | | | | |
| **Energy** | | **HS-PS3-1**  HS-PS3-2  HS-PS3-3  **HS-PS3-4a**  HS-PS3-5 | | | | | |
| **Waves and Their Applications in Technologies for Information Transfer** | | **HS-PS4-1**  HS-PS4-3  HS-PS4-5 | | | | | |
| **Please indicate the science practice(s), if any, documented in the attached work sample.** | | | | | | | |
| 1. Asking questions and defining problems | | | 5. Using mathematics and computational thinking | | | | |
| 2. Developing and using models | | | 6. Constructing explanations and designing solutions | | | | |
| 3. Planning and carrying out investigations | | | 7. Engaging in argument from evidence | | | | |
| 4. Analyzing and interpreting data | | | 8. Obtaining, evaluating, and communicating information | | | | |
| **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? | | | | | | | |
|  | | | | | | | |
| 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 to complete the attached piece (i.e., what was the assignment)? | | | | | | | |
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Massachusetts Department of Elementary and Secondary Education