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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.
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| **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? |
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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 to complete the attached piece (i.e., what was the assignment)?  |
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Massachusetts Department of Elementary and Secondary Education