**Characteristics of Career and College Ready Students**

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| **Michigan****Literacy Anchor Standards** | **NRC Science****and Engineering****Practices** | **Michigan****Social Studies****HSCE-GLCE** | **Michigan Mathematics****Practices** | **Michigan Visual, Performing, and Applied Arts (VPA) Guidelines** | **CTE Career Ready Practices** |
|  | **Technology and Tools** |  |
| * Integrate and evaluate content presented in diverse formats and media
* Use digital media and visual displays of data to express information; produce and publish writing, interact and collaborate with others; and gather relevant information from multiple sources
 | * Use mathematics, information and computer technology, and computational thinking
* Develop and use models
 | * Compose written, spoken, and/or multimedia compositions in a range of genres … that serve a variety of purposes
* Know how to find and organize information from a variety of sources
 | * Use appropriate tools strategically
* Model with mathematics
 | * Create preliminaries, possibilities and drafts
* Acquire knowledge and skills
 | * Apply appropriate academic and technical skills
* Use technology to enhance productivity
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|  | **Argument and Reasoning** |  |
| * Evaluate argument and claims in a text, speech, or write arguments to support claims
* Draw evidence from literary and informational texts to support analysis, reflection, and research
* Present information, findings, and supporting evidence
 | * Engage in argument from evidence
* Analyze and interpret data
 | * Present a coherent thesis when making an argument, support with evidence, articulate and answer possible objections, and present a concise, clear closing
* Write persuasive/ argumentative essays expressing and justifying decisions on public policy issues
 | * Construct viable arguments and critique the reasoning of others
* Reason abstractly and quantitatively
 | * Recognize patterns and relationships
* Questions, problems, needs, reflections, and revisions
 | * Consider the environmental, social and economic impacts of decisions
* Employ valid and reliable research strategies
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|  | **Communication and Collaboration** |  |
| * Effectively converse and collaborate with diverse partners
* Use language to comprehend more fully when reading or listening
* Produce clear and coherent writing
 | * Obtain, evaluate, and communicate information
 | * Develop and refine a position, claim… that will be explored and supported by analyzing different perspectives
* Deeply examine policy issues in group discussions and debates (clarify issues, consider opposing views, apply democratic values or constitutional principles, anticipate consequences) to make reasoned and informed decisions
 | * Attend to precision
 | * Exhibit, perform, present, or publish
* Apply techniques and skills to communicate
 | * Act as a responsible and contributing citizen and employee
* Communicate clearly, effectively and with reason
* Model integrity, ethical leadership and effective management
* Work productively in teams while using cultural/global competence
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|  | **Problem Solving** |  |
| * Integrate multiple sources of information in order to make informed decisions and solve problems
* Conduct research projects
 | * Ask questions (science) and define problems (engineering)
* Plan and carry out investigations
* Construct explanations (science) and design solutions (engineering)
 | * Clearly state an issue as a question of public policy; trace the origins of an issue; analyze various perspectives; and generate and evaluate possible alternative resolutions
* Use deductive and inductive problem-solving skills as appropriate to the problem being studied
 | * Make sense of problems and persevere in solving them
* Look for and make sense of structure
* Look for and express regularity in repeated reasoning

  | * Present art, products, or solutions
* Problem solve, make critical decisions, and edits
* Experiment and search out problems
 | * Attend to personal health and financial well-being
* Demonstrate creativity and innovation
* Utilize critical thinking to make sense of problems and persevere in solving them
* Plan education and career path aligned to personal goals
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**Career and College Ready Students…**

* use **technology and tools** strategically in learning and communicating,
* use **argument and reasoning** to do research, construct arguments, and critique the reasoning of others,
* **communicate and collaborate** effectively with a variety of audiences,
* **solve problems**, construct explanations and design solutions.