



Literacy in the 21st century requires more than the ability to read, write, and compute. In order to function successfully in the 21st century world, every student must develop strong technological skills and continually use and refine them. LMPSA feels strongly that technology resources are integrated across the Montessori curriculum and are used daily for certain areas of instruction. As the students get older, they must be able to use the many forms of technology to access, understand, manage, interpret, evaluate, and create information. They must be able to present this information in a variety of formats, using technology to share the learning that they have accomplished. The board feels strongly that educators face a constant challenge to uphold a strong Montessori curriculum, state-mandated educational standards, as well as the rapid changes in technology. The LMPSA Board of Directors feels that our school must ensure technology resources are integrated across the curriculum and become part of the fabric of instruction in the elementary grades, with an awareness of how technology might support learning for individual students in the primary grades for specific purposes.

The Board of Directors, Administration, and Classroom teachers are all dedicated to the success of each and every student. To achieve this mission, the Board must ensure that all staff at LMPSA have the skills and knowledge to deliver quality curriculum and instruction to meet the varied needs of all students. To meet the demand for, “career and college-ready” students, we feel it necessary to empower our educators and students to be ready to deliver on innovations in the digital content creation, virtual collaboration, and mobile learning that exists today. This is an exciting time in education, where there are so many options and extensions for learning that students and teachers are many times learning together. The Board of Directors at LMPSA realizes the choice that Montessori provides families and how unique the individualization that occurs in the classroom can be augmented by technology use in the elementary classrooms. A technology-rich education produces students with the tools, competencies, and level of sophistication necessary to be successfully employed in an ever-changing global economy. Such an education enables all students to understand and use current and emerging technologies in their personal, academic and future work environments.

The LMPSA 2016-2017 Technology plan addresses the hopes for student and staff outcomes regarding technology within the school. This plan consider the basic skills and various proficiencies at each level the Board of Directors feels are necessary to help our students achieve a level of proficiency and become better able to meet the demands for college and career ready students in Michigan. Students will acquire technology skills as a means to an end, receiving practice in selecting and using various technology applications to accomplish a wide variety of tasks.

Expected student outcomes in 3 year cycles at each level as a result of technology use:

Basic technology skills that should be developed to prepare for curricular demands at higher levels:

- Select and access technology appropriate to needs.
- Use correct starting and exiting procedures.
- Develop keyboarding skills.

- Operate peripheral devices.
- Use technology independently and cooperatively.
- Use technology safely and ethically.
- Develop research skills.

Proficiencies our students should be working towards at both levels of the elementary:

- Understanding the proficiencies needed by our upper elementary students, every student in lower elementary will be exposed to basic technology literacy, through the use of research skills.
- Every student entering 3rd grade will demonstrate basic keyboarding skills which will enable her/him to navigate through a web page and to construct and edit a basic word processing document.
- Every student will have equal access to an online experience on a daily basis.
- Every student will use information technology resources to engage in meaningful real world problem solving experiences.
- Every student in the upper elementary will demonstrate the ability to complete a research project utilizing technology and electronic and/or internet resources.
- Every student in the upper elementary will be able to access core information through a video webcast format.
- Every student in the upper elementary will have multiple experiences presenting information utilizing technology.
- Every student leaving LMPSA after 6th grade will demonstrate basic computer competencies around the legal and moral ethics of technological sharing and transfer of information.

Expected staff outcomes as a result of technology use:

The Board of Directors, through the Head of School, will promote and support the technological training for all LMPSA employees.

- All teachers will use technology to review, monitor and structure student learning and progress.
- All teachers will utilize quality software programs allowing teachers to more easily evaluate student performance and present information to parents in an easy to read format.
- All teachers will access current information to supplement teaching resources with electronic sources and on-line services.
- All staff will utilize technology as a primary means of communicating with colleagues and the global community.
- All staff will use technology to remain informed of the latest and most successful teaching practices.
- All teachers will successfully integrate technology into various curriculum areas including virtual field trips.
- All staff will demonstrate a proficiency in the use of multimedia software and Computer Performance Systems.
- All staff will demonstrate basic computer competencies around the legal and moral ethics of technological sharing and transfer of information.
- Provide a web based design application for teachers to design their own webpage.