



Maryland Technology Literacy Standards for Students

Standard 6.0 – Technology for Problem-Solving and Decision-Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

<p>Components of a Problem Solving Process Supported by Technology</p> <p>A. Investigate Problems and Propose Solutions</p> <ol style="list-style-type: none"> 1. Understand the Problem 2. Devise a Plan 3. Carry Out the Plan 4. Analyze Data 5. Communicate Conclusion <p>B. Examine the Solution</p>

The components of the problem solving process are the same for all disciplines and across all grade levels. Academic rigor comes from the complexity of the problem and the technology used to solve the problem.

Pre-Kindergarten	Kindergarten	Grade 1	Grade 2	Grade 3
<p>A. Investigate Problems and Propose Solutions</p> <p>1. Understand the Problem</p> <ul style="list-style-type: none"> • With the guidance of the teacher, students understand that there are different types of problems and that technology can help identify the type of problem and the data needed to answer that type of problem 	<p>A. Investigate Problems and Propose Solutions</p> <p>1. Understand the Problem</p> <ul style="list-style-type: none"> • With the guidance of the teacher, students understand that there are different types of problems and that technology can help identify the type of problem and the data needed to answer that type of problem 	<p>A. Investigate Problems and Propose Solutions</p> <p>1. Understand the Problem</p> <ul style="list-style-type: none"> • With the guidance of the teacher, students use technology to help identify the type of problem and the data needed to answer that type of problem 	<p>A. Investigate Problems and Propose Solutions</p> <p>1. Understand the Problem</p> <ul style="list-style-type: none"> • With the guidance of the teacher, students use technology to help identify the type of problem and the data needed to answer that type of problem 	<p>A. Investigate Problems and Propose Solutions</p> <p>1. Understand the Problem</p> <ul style="list-style-type: none"> • With the guidance of the teacher, students use technology to help identify the type of problem and the data needed to answer that type of problem



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<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • With the guidance of the teacher, use technology to record questions • Participate in a class lesson to identify sources of information, including technology, to answer questions <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Participate in a class lesson using technology to explore collecting data • Select relevant information from teacher-selected technology resources 	<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • With the guidance of the teacher, use technology to record questions • Participate in a class lesson to identify sources of information, including technology, to answer questions <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Participate in a class lesson using technology tools to explore collecting data • Select relevant information from teacher-selected technology resources • Describe how technology tools are used to collect data 	<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • With the guidance of the teacher, use technology to record questions • Identify which technology tools can be used to gather observations of a subject <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Identify technology tools that help gather information • Participate in a class lesson using technology tools to collect data • Use electronic tools to collect data • Identify electronic sources of information • Select relevant information from appropriate technology resources • Describe how technology tools are used to collect data 	<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • Use technology to record questions • Identify sources of information, including technology resources, to gather information <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Identify technology tools that help gather information • Participate in a class lesson using technology tools to collect data • Use electronic tools to collect data • Select relevant information from appropriate technology resources • Use teacher-selected technology tools to collect data 	<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • Use technology to record questions • Identify which technology tools can be used to gather information <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Explain how electronic tools help gather information from various audiences • Use electronic tools to collect data • Select relevant information from appropriate technology resources

Accepted by the Maryland State Board of Education on February 27, 2007
 Bulleted items identify possible integration of technology integration in the problems solving and decision making process



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<p>4. Analyze Data</p> <ul style="list-style-type: none"> Describe how technology tools are used to organize data <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> Determine how data will be displayed Participate in a class lesson using technology tools to display data Describe how technology tools are used to display data Recognize that various media formats are used to communicate conclusions <p>B Examine the Solution</p> <ul style="list-style-type: none"> Reflect and discuss, as part of a larger group, on the appropriateness of the selected technology for the given task Reflect and discuss the advantages of using technology tools to gather, analyze, and communicate conclusions 	<p>4. Analyze Data</p> <ul style="list-style-type: none"> Describe how technology tools are used to organize data <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> Participate in a class lesson using technology tools to display data Recognize that various media formats are used to communicate conclusions <p>B Examine the Solution</p> <ul style="list-style-type: none"> Reflect and discuss, as part of a larger group, on the appropriateness of the selected technology for the given task Reflect and discuss the advantages of using technology tools to gather, analyze, and communicate conclusions 	<p>4. Analyze Data</p> <ul style="list-style-type: none"> Participate in a class lesson using technology tools to interpret data Use electronic tools to analyze data Describe how technology tools are used to organize information <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> Participate in a class lesson using technology tools to display data Use electronic tools to display data Identify various media formats to communicate information Use various media formats, with assistance, to communicate conclusions <p>B Examine the Solution</p> <ul style="list-style-type: none"> Reflect and discuss, as part of a larger group, on the appropriateness of the selected technology for the given task Reflect and discuss the advantages of using technology tools to gather, analyze, and communicate conclusions 	<p>4. Analyze Data</p> <ul style="list-style-type: none"> Use various electronic information retrieval sources to obtain information on a topic Participate in a class lesson using technology tools to interpret data Use electronic tools to organize and analyze data <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> Participate in a class lesson using technology tools to display data Use electronic tools to display data Communicate conclusions with various audiences, independently or with assistance, using different media formats <p>B Examine the Solution</p> <ul style="list-style-type: none"> Articulate the advantages of using technology tools to gather, analyze, and communicate conclusions Assess the use of the selected technology for gathering data, analyzing data, and communicating conclusions 	<p>4. Analyze Data</p> <ul style="list-style-type: none"> Use various electronic information retrieval sources to obtain information on a topic Use electronic tools to analyze data <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> Use electronic tools to display data Communicate conclusions with various audiences using different media formats <p>B Examine the Solution</p> <ul style="list-style-type: none"> Articulate the advantages of using technology tools to gather, analyze, and communicate conclusions Assess the use of the selected technology for gathering data, analyzing data, and communicating conclusions

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