



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

Components of a Problem Solving Process Supported by Technology A. Investigate Problems and Propose Solutions <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 B. Examine the Solution

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.

Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
A. Investigate Problems and Propose Solutions 1. Understand the Problem <ul style="list-style-type: none"> • Use technology to help identify the type of problem and the data needed to answer that type of problem 	A. Investigate Problems and Propose Solutions 1. Understand the Problem <ul style="list-style-type: none"> • Use technology to help identify the type of problem and the data needed to answer that type of problem 	A. Investigate Problems and Propose Solutions 1. Understand the Problem <ul style="list-style-type: none"> • Use technology to help identify the type of problem and the data needed to answer that type of problem 	A. Investigate Problems and Propose Solutions 1. Understand the Problem <ul style="list-style-type: none"> • Use technology to help identify the type of problem and the data needed to answer that type of problem 	A. Investigate Problems and Propose Solutions 1. Understand the Problem <ul style="list-style-type: none"> • Use technology to help identify the type of problem and the data needed to answer that type of problem



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

Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • Describe how technology tools are used to collect information • Use technology to help formulate a research question about a problem/situation that requires further study • Use technology to develop a plan for how to answer questions about a problem/situation that requires further study • Identify technology resources to gather information about a problem/situation that requires further study <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Collect data and information using technology tools • Use communication tools identified by the teacher to help gather information • Apply evaluation strategies when using electronic resources • Make and record observations using technology 	<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • Identify possible technology tools to gather data • Use technology to help formulate a research question about a problem/situation that requires further study • Use technology to develop a plan for how to answer questions about a problem/situation that requires further study • Identify technology resources to gather information about a problem/situation that requires further study • Select an appropriate technology tool to gather data <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Collect data and information using technology tools • Use communication tools to gather information • Apply evaluation strategies when using electronic resources • Make and record observations using technology 	<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • Identify possible technology tools to gather data • Use technology to help formulate a research question about a problem/situation that requires further study • Use technology to develop a plan for how to answer questions about a problem/situation that requires further study • Identify technology resources to gather information about a problem/situation that requires further study • Select an appropriate technology tool to gather data <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Collect data and information using technology tools • Use communication tools to gather information • Apply evaluation strategies when using electronic resources • Make and record observations using technology 	<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • Identify possible technology tools to gather data • Use technology to help formulate a research question about a problem/situation that requires further study • Use technology to develop a plan for how to answer questions about a problem/situation that requires further study • Identify technology resources to gather information about a problem/situation that requires further study • Select an appropriate technology tool to gather data <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Collect data and information using technology tools • Use communication tools to gather information • Apply evaluation strategies when using electronic resources • Make and record observations using technology 	<p>2. Devise a Plan</p> <ul style="list-style-type: none"> • Identify possible technology tools to gather data • Use technology to help formulate a research question about a problem/situation that requires further study • Use technology to develop a plan for how to answer questions about a problem/situation that requires further study • Identify technology resources to gather information about a problem/situation that requires further study • Select an appropriate technology tool to gather data <p>3. Carry Out the Plan</p> <ul style="list-style-type: none"> • Collect data and information using technology tools • Use communication tools to gather information • Apply evaluation strategies when using electronic resources • Make and record observations using technology

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



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

Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
<p>4. Analyze Data</p> <ul style="list-style-type: none"> • Analyze information using technology tools • Input and analyze information in a predefined spreadsheet or database • Describe how technology tools are used to organize information <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> • Display data and information using technology tools • Use communication tools identified by the teacher to communicate conclusions • Present information and conclusions in formats that are appropriate to a specific audience <p>B Examine the Solution</p> <ul style="list-style-type: none"> • Assess the use of the selected technology for individual learning of the specific task • Explain the purpose for a chosen media format when communicating data 	<p>4. Analyze Data</p> <ul style="list-style-type: none"> • Analyze information using technology tools • Input and analyze information in a spreadsheet or database • Explain why specific technology tools were selected to organize information <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> • Display data and information using technology tools • Use communication tools to communicate conclusions • Present information and conclusions in formats that are appropriate to a specific audience <p>B Examine the Solution</p> <ul style="list-style-type: none"> • Assess the use of the selected technology for individual learning of the specific task • Evaluate the appropriateness of media formats for communicating data 	<p>4. Analyze Data</p> <ul style="list-style-type: none"> • Analyze information using technology tools • Input and analyze information in a spreadsheet or database • Explain why specific technology tools were selected to organize information <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> • Display data and information using technology tools • Use communication tools to communicate conclusions • Present information and conclusions in formats that are appropriate to a specific audience <p>B Examine the Solution</p> <ul style="list-style-type: none"> • Assess the use of the selected technology for individual learning of the specific task • Evaluate the appropriateness of media formats for communicating data 	<p>4. Analyze Data</p> <ul style="list-style-type: none"> • Analyze information using technology tools • Input and analyze information in a spreadsheet or database • Defend the selection of the specific technology tool to organize information <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> • Display data and information using technology tools • Use communication tools to communicate conclusions • Present information and conclusions in formats that are appropriate to a specific audience <p>B Examine the Solution</p> <ul style="list-style-type: none"> • Defend the use of the selected technology for individual learning of the specific task • Evaluate the appropriateness of media formats for communicating data 	<p>4. Analyze Data</p> <ul style="list-style-type: none"> • Analyze information using technology tools • Input and analyze information in a spreadsheet or database • Defend the selection of the specific technology tool to organize information <p>5. Communicate Conclusion</p> <ul style="list-style-type: none"> • Display data and information using technology tools • Use communication tools to communicate conclusions • Present information and conclusions in formats that are appropriate to a specific audience <p>B Examine the Solution</p> <ul style="list-style-type: none"> • Defend the use of the selected technology for individual learning of the specific task • Evaluate the appropriateness of media formats for communicating data

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