

Michigan GED Subject Alignment

To KeyTrain

Language Arts Writing Test

Part I Content Area	KeyTrain Writing Topics Covering Content Area
Organization	Level 1: Organization Level 2: Organization Level 3: Organization Level 4: Organization Level 5: Organization Level 5: Proofreading
Sentence structure	Level 1: Sentence Structure Level 2: Sentence Structure Level 3: Sentence Structure Level 4: Writing Techniques Level 5: Sentence Structure Level 5: Proofreading
Usage	Level 1: Nouns Level 1: Verbs Level 2: Describing Words Level 2: Writing Practice Level 3: Nouns and Verbs Level 4: Vocabulary Level 5: Parts of Speech Level 5: Describing Words Level 5: Proofreading
Mechanics	Level 1: Punctuation Level 1: Spelling Level 2: Punctuation and Spelling Level 3: Punctuation Level 4: Grammar and Punctuation Level 5: Punctuation and Capitalization Level 5: Proofreading
Part II	Level 1: Writing Exercises Level 2: Writing Exercises Level 3: Writing Exercises Level 4: Writing Exercises Level 5: Writing Exercises

Social Studies Test

Test Items: 60% of test items refer to graphics or a reading passage accompanied by graphics. KeyTrain’s Locating Information course covers these items. The Locating Information Course moves from extracting data at Level 3 to applying judgment and assimilating data at Level 6. Each lesson teaches how to use graphical information to make decisions. The complexity of the graphical information increases as the learner progresses through the course. Additionally, the application and analysis becomes more difficult in the higher levels. Refer to the topics covered below:

Thinking Skills	KeyTrain Lessons Covering Thinking Skills
Comprehension	<p>Locating Information</p> <p><u>Level 3</u> Pie Charts Bar Graphs Line Graphs Tables & Forms Maps & Plans Diagrams Gauges</p> <p>Reading for Information</p> <p><u>Level 3</u> Word Meanings Finding Information Following Directions Forms & Contents Finding Details Making Connections Topics & Main Ideas</p> <p><u>Level 4</u> Words in Context Word Part Clues Facts in Paragraphs</p> <p><u>Level 5</u> Multiple Meanings</p> <p><u>Level 6</u> Implied Details</p>

Comprehension - Continued	<p>Listening</p> <p><u>Level 1</u> Listening for Information Listening for Understanding</p> <p><u>Level 2</u> Getting the Details</p> <p><u>Level 3</u> Listening for Details Literal Comprehension</p> <p><u>Level 4</u> Listening for Details</p> <p>Observation</p> <p><u>Level 3</u> Memory Skills</p> <p><u>Level 4</u> Memory Skills</p> <p><u>Level 5</u> Memory Skills</p> <p><u>Level 6</u> Memory Skills</p>
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Application	<p>Locating Information</p> <p><u>Level 4</u> Pie Charts Bar Graph Line Graphs Tables & Forms Maps & Plans Diagrams Gauges</p> <p>Reading for Information</p> <p><u>Level 4</u> Making Inferences Reading Procedures</p> <p><u>Level 5</u> Technical Jargon Acronyms Applying Instructions</p> <p><u>Level 6</u> Understanding Jargon</p> <p>Listening</p> <p><u>Level 2</u> Following Directions Organizing What you Hear</p> <p><u>Level 4</u> Following Directions</p> <p><u>Level 5</u> Following Directions</p> <p>Observation</p> <p><u>Level 3</u> Recognizing Main Ideas</p> <p><u>Level 4</u> How parts Relate to the Whole Sequencing Skills</p>
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Analysis	<p>Locating Information</p> <p><u>Level 5</u> Complex Documents Finding Details Multiple Documents Extracting Data Identifying Trends</p> <p>Reading for Information</p> <p><u>Level 5</u> Cause and Effects Interpreting Information</p> <p><u>Level 6</u> Meaning from Context Complex Information Main Principles</p> <p><u>Level 7</u> Definitions Legal Documents</p> <p>Listening</p> <p><u>Level 3</u> Predicting Outcomes</p> <p><u>Level 4</u> Interpretation</p> <p><u>Level 5</u> Complete Details</p> <p>Observation</p> <p><u>Level 5</u> Determining Context</p> <p><u>Level 6</u> Cause-Effect Relationships</p>
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Evaluation	<p>Locating Information <u>Level 6</u> Drawing Conclusions Using Criteria Data Relationships</p> <p>Reading for Information <u>Level 6</u> Author's Reasons</p> <p><u>Level 7</u> Applying Principles Drawing Conclusions</p> <p>Listening <u>Level 5</u> Critical Listening Verbal vs. Nonverbal Interpretation</p> <p>Observation <u>Level 6</u> Integrating Information</p>
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Science Test

Test Items: 50% of test items refer to graphics or a reading passage accompanied by graphics. KeyTrain’s Locating Information course covers these items. Refer to Social Studies test information for details.

Themes / Content Areas	KeyTrain Topic
<p>Science as Inquiry – methods and processes used to “do” science, focusing on the scientific method</p>	<p>Introduction to Applied Technology <u>Problem Solving Strategies</u> What is Problem Solving? Problem Solving Methods Identify the Problem Gather Data Make a Plan Execute the Plan Evaluate the Results Compartmentalizing Common Concepts Other Problem-Solving Models</p> <p>Applied Technology– entire course (outline below)</p> <p>Observation <u>Level 3</u> Overcoming Obstacles <u>Level 4</u> Paying Attention to Details How Parts Relate to the Whole Sequencing Skills <u>Level 5</u> Determining Context <u>Level 6</u> Integrating Information Cause-Effect Relationships</p>
<p>Science and Technology – the interaction of scientific inquiry with technology and tools</p>	<p>Applied Technology– entire course (outline below)</p>
<p>Physical Science</p>	<p>Applied Technology– entire course (outline below)</p>

Electricity

Level 3

Voltage & Current
Resistors
Circuits & Switches
Capacitors
Inductors
Series & Parallel Circuits
Circuit Breakers
Multimeters
Troubleshooting Circuits

Level 5

Digital Circuits
Computers
Information Storage Devices
Printers
Photocopying
Troubleshooting Exercises

Level 4

Magnets & Electricity
Alternating & 3 Phase Current
Transformers
Motors & Generators
Ohm's Law
Grounding & GFCI's
Lighting Types
Relays & Solenoids
Troubleshooting Exercises

Level 6

Thermocouples & Thermostats
Analog / Digital Converters
Electronic Scales
Light Sensors & Emitters
Solar Cells
Troubleshooting Exercises

Mechanics

Level 3

Force & Pressure
Friction & Inertia
Planes & Levers
Torque and Gears
Wheels and Pulleys
Springs
Troubleshooting Exercises

Level 5

Bearings
Lubrication
Conveyors
Sound and Vibration
Troubleshooting Exercises

Level 4

Screws
Acceleration
Rotation
Center of Gravity
Troubleshooting Exercises

Level 6

Gas Engines
Alternative Power
Hybrid Engines
Troubleshooting Exercises

Thermodynamics

Level 3

Temperature & Heat
Conduction
Thermal Expansion
Convection
Radiation
Troubleshooting Exercises

Level 4

Melting & Freezing
Evaporation and Condensation
Boiling
Refrigeration
Troubleshooting Exercises

Level 5

Heat Exchangers
Ovens & Furnaces
Boilers
Troubleshooting Exercises

Level 6

Cooling Towers
Solar Heating Systems
Troubleshooting Exercises

Fluids

Level 3

Pressure & Flow
Flotation
Pipes & Valves
Pumps
Troubleshooting Exercises

Level 4

Gases and Pressure
Vacuum
Compression Heating
Troubleshooting Exercises

Level 5

Piping Problems
Flow Measurement Devices
Mixing & Turbulence
Troubleshooting Exercises

Level 6

Hydraulic Cylinders
Piping Systems
Troubleshooting Exercises

Language Arts Reading Test

Thinking Skills	KeyTrain Lessons Covering Thinking Skills
Comprehension	<p>Locating Information</p> <p><u>Level 3</u> Pie Charts Bar Graphs Line Graphs Tables & Forms Maps & Plans Diagrams Gauges</p> <p>Reading for Information</p> <p><u>Level 3</u> Word Meanings Finding Information Following Directions Forms & Contents Finding Details Making Connections Topics & Main Ideas</p> <p><u>Level 4</u> Words in Context Word Part Clues Facts in Paragraphs</p> <p><u>Level 5</u> Multiple Meanings</p> <p><u>Level 6</u> Implied Details</p>

Comprehension -
Continued

Listening

Level 1

Listening for Information

Listening for Understanding

Level 2

Getting the Details

Level 3

Listening for Details

Literal Comprehension

Level 4

Listening for Details

Observation

Level 3

Memory Skills

Level 4

Memory Skills

Level 5

Memory Skills

Level 6

Memory Skills

Application	<p>Locating Information</p> <p><u>Level 4</u> Pie Charts Bar Graph Line Graphs Tables & Forms Maps & Plans Diagrams Gauges</p> <p>Reading for Information</p> <p><u>Level 4</u> Making Inferences Reading Procedures</p> <p><u>Level 5</u> Technical Jargon Acronyms Applying Instructions</p> <p><u>Level 6</u> Understanding Jargon</p> <p>Listening</p> <p><u>Level 2</u> Following Directions Organizing What you Hear</p> <p><u>Level 4</u> Following Directions</p> <p><u>Level 5</u> Following Directions</p> <p>Observation</p> <p><u>Level 3</u> Recognizing Main Ideas</p> <p><u>Level 4</u> How parts Relate to the Whole Sequencing Skills</p>
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Analysis	<p>Locating Information</p> <p><u>Level 5</u> Complex Documents Finding Details Multiple Documents Extracting Data Identifying Trends</p> <p>Reading for Information</p> <p><u>Level 5</u> Cause and Effects Interpreting Information</p> <p><u>Level 6</u> Meaning from Context Complex Information Main Principles</p> <p><u>Level 7</u> Definitions Legal Documents</p> <p>Listening</p> <p><u>Level 3</u> Predicting Outcomes</p> <p><u>Level 4</u> Interpretation</p> <p><u>Level 5</u> Complete Details</p> <p>Observation</p> <p><u>Level 5</u> Determining Context</p> <p><u>Level 6</u> Cause-Effect Relationships</p>
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Synthesis	<p>Locating Information <u>Level 6</u> Drawing Conclusions Using Criteria Data Relationships</p> <p>Reading for Information <u>Level 6</u> Author's Reasons</p> <p><u>Level 7</u> Applying Principles Drawing Conclusions</p> <p>Listening <u>Level 5</u> Critical Listening Verbal vs. Nonverbal Interpretation</p> <p>Observation <u>Level 6</u> Integrating Information</p>
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Math Test

Test Items: 50% of test items are based on graphics. KeyTrain’s Locating Information course covers these items. Refer to Social Studies test information for details.

Content Area	KeyTrain Lesson
Number Operations and Number Sense	<p>Beginning Skills <u>Numbers and Sequences</u> – entire lesson <u>Addition</u> <u>Subtraction</u> <u>Multiplication</u> <u>Division</u></p> <p>Applied Mathematics <u>Level 3</u> Math Review Quantity Money Time Fractions & Decimals Negative Numbers</p> <p><u>Level 4</u> Money & Time Fractions & Decimals</p> <p><u>Level 5</u> Fractions & Decimals</p> <p><u>Level 6</u> Fractions & Decimals</p>

<p>Data Analysis, Statistics, Probability</p>	<p>Applied Mathematics</p> <p><u>Level 4</u> Percentages Averages Proportions</p> <p><u>Level 5</u> Percentages Production Rates Best Deals</p> <p><u>Level 6</u> Percentages Rate Problems Best Deals</p> <p><u>Level 7</u> Ratios & Proportions Best Deals</p>
<p>Algebra, Functions, and Patterns</p>	<p>Beginning Skills</p> <p><u>Numbers and Sequences</u></p> <p>Applied Mathematics</p> <p><u>Level 4</u> Diagrams</p> <p><u>Level 6</u> Problem Solving Multiple Steps</p> <p><u>Level 7</u> Multiple Steps Multiple Unknowns Non-Linear Functions</p>

Measurement and Geometry	<p>Beginning Skills <u>Measurement</u></p> <p>Applied Mathematics <u>Level 3</u> Measurement</p> <p><u>Level 4</u> Measurement</p> <p><u>Level 5</u> Measurement Perimeter & Area</p> <p><u>Level 6</u> Area & Volume</p> <p><u>Level 7</u> Volume & Area</p>
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