

# Math ISAT: Concepts and Principles of Measurement

## Skills: Length, Weight, Mass and Capacity

Students:	<b>RIT Above 260:</b> <ul style="list-style-type: none"> <li>• <i>No Skills Listed</i></li> </ul>
Students:	<b>RIT 251-260:</b> <ul style="list-style-type: none"> <li>• Solves complex real-world problems involving capacity</li> </ul>
Students:	<b>RIT 241-250:</b> <ul style="list-style-type: none"> <li>• <i>No Skills Listed</i></li> </ul>
Students:	<b>RIT 231-240:</b> <ul style="list-style-type: none"> <li>• Measures length to the nearest millimeter</li> </ul>
Students:	<b>RIT 221-230:</b> <ul style="list-style-type: none"> <li>• Knows the approximate size of a meter</li> <li>• Measures length to the nearest millimeter</li> <li>• Uses the appropriate unit of measure for length</li> </ul>
Students:	<b>RIT 211-220:</b> <ul style="list-style-type: none"> <li>• Knows the approximate size of a millimeter</li> <li>• Knows the approximate size of a kilometer</li> <li>• Measures length to the nearest half inch</li> <li>• Measures length to the nearest quarter of an inch</li> <li>• Measures length to the nearest eighth of an inch</li> <li>• Knows the approximate size of an ounce</li> <li>• Knows the approximate size of a gallon</li> <li>• Solves simple problems involving capacity</li> <li>• Selects and uses the appropriate type and size of unit in metric system (length, height and mass)</li> </ul>
Students:	<b>RIT 201-210:</b> <ul style="list-style-type: none"> <li>• Knows the approximate size of a centimeter</li> <li>• Knows the approximate size of a yard</li> <li>• Measures length to the nearest centimeter</li> <li>• Knows the approximate size of a gram</li> <li>• Knows the approximate size of a pound</li> <li>• Selects and uses balances for measuring weight or mass</li> <li>• Selects and uses the appropriate type and size of unit in metric system (length and height)</li> </ul>
Students:	<b>RIT 191-200:</b> <ul style="list-style-type: none"> <li>• Knows the approximate size of a foot</li> <li>• Knows the approximate size of a mile</li> <li>• Measures length with non-standard units</li> <li>• Knows the approximate size of an ounce</li> <li>• Uses balance scale to measure weight of an unknown object</li> <li>• Knows the approximate size of a pint</li> <li>• Selects and uses the appropriate type and size of unit in customary system (length, height, weight, capacity)</li> </ul>
Students:	<b>RIT 181-190:</b> <ul style="list-style-type: none"> <li>• Knows the approximate length of familiar objects</li> <li>• Knows the approximate size of an inch</li> <li>• Measures length with non-standard units</li> <li>• Measures length with customary measures to the half inch mark</li> <li>• Determines more capacity or less capacity</li> <li>• Identifies the appropriate instrument used to measure length</li> <li>• Selects and uses the appropriate type and size of unit in customary system (length, height, weight, capacity)</li> </ul>
Students:	<b>RIT 171-180:</b> <ul style="list-style-type: none"> <li>• Estimates and measures length of an object to the nearest centimeter using a picture of a ruler</li> <li>• Measures length with customary measures to the inch mark</li> <li>• Knows the approximate weight of familiar objects</li> </ul>
Students:	<b>RIT 161-170:</b> <ul style="list-style-type: none"> <li>• Compares objects (shorter, longer)</li> <li>• Estimates and measures length of an object to the nearest inch using a picture of a ruler</li> <li>• Measures length with metric measures to the centimeter mark</li> <li>• Measures length with customary measures to the inch mark</li> </ul>
Students:	<b>RIT Below 161:</b> <ul style="list-style-type: none"> <li>• Compares objects (wider, narrower)</li> <li>• Compares objects (taller, shorter)</li> </ul>