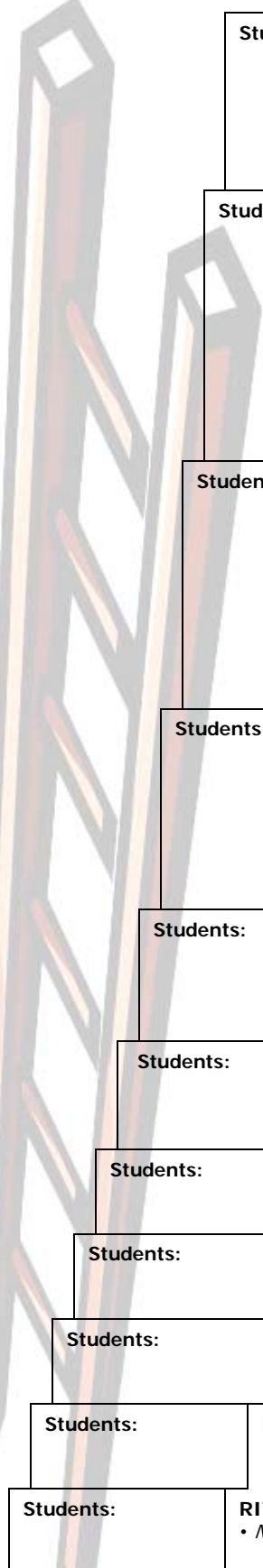


# Math ISAT: Algebra, Functions, and Mathematical Models

## Skills: Apply Functions to a Variety of Problems



|           |   |
|-----------|---|
| Students: | <b>RIT Above 260:</b> <ul style="list-style-type: none"><li>• Determines the slope of perpendicular lines</li><li>• Determines the slope of parallel lines</li><li>• Determines x- or y-intercept of a given equation</li><li>• Determines slope from an equation (analysis)</li><li>• Solves logarithmic functions</li></ul>   |
| Students: | <b>RIT 251-260:</b> <ul style="list-style-type: none"><li>• Represents a real-world function using a complex equation (e.g., variables on both sides, distributive, rational)</li><li>• Models real life functions using function notation</li><li>• Determines the slope of perpendicular lines</li><li>• Determines the slope of parallel lines</li><li>• Determines slope from an equation (analysis)</li><li>• Determines slope from ordered pairs and tables</li><li>• Interprets the meaning of slope and intercepts in problem solving situations</li><li>• Solves logarithmic functions</li></ul> |
| Students: | <b>RIT 241-250:</b> <ul style="list-style-type: none"><li>• Represents a real-world function using a complex equation (e.g., variables on both sides, distributive, rational)</li><li>• Models real life functions using function notation</li><li>• Solves problems involving complex functions</li><li>• Using the slope of an equation, identifies parallel and perpendicular lines</li><li>• Determines slope from an equation</li><li>• Identifies and describes situations with varying rates of change</li><li>• Performs operations on functions</li></ul>  |
| Students: | <b>RIT 231-240:</b> <ul style="list-style-type: none"><li>• Represents real-world functions using an equation</li><li>• Solves problems involving simple functions</li><li>• Models real life functions using function notation</li><li>• Solves problems involving complex functions</li><li>• Using the slope of an equation, identifies parallel and perpendicular lines</li><li>• Determines slope from an equation</li></ul>   |
| Students: | <b>RIT 221-230:</b> <ul style="list-style-type: none"><li>• Solves problems involving simple functions</li><li>• Investigates and describes functional relationships of geometric figures (e.g., area is a function of the radius)</li></ul>  |
| Students: | <b>RIT 211-220:</b> <ul style="list-style-type: none"><li>• Solves problems involving simple functions</li></ul>  |
| Students: | <b>RIT 201-210:</b> <ul style="list-style-type: none"><li>• <i>No Skills Listed</i></li></ul>   |
| Students: | <b>RIT 191-200:</b> <ul style="list-style-type: none"><li>• <i>No Skills Listed</i></li></ul>   |
| Students: | <b>RIT 181-190:</b> <ul style="list-style-type: none"><li>• <i>No Skills Listed</i></li></ul>   |
| Students: | <b>RIT 171-180:</b> <ul style="list-style-type: none"><li>• <i>No Skills Listed</i></li></ul>   |
| Students: | <b>RIT Below 171:</b> <ul style="list-style-type: none"><li>• <i>No Skills Listed</i></li></ul>   |