

Secondary Math 3 Honors
Unit 10 Functions

Name: _____
Period: _____

Criteria:	Comments:	Score:
<p>Selecting functions</p> <ul style="list-style-type: none"> Select 6 <i>different</i> functions to work with (for example 1 linear, 1 square root, 1 piecewise, etc.) At least one of the functions must have a discontinuity. (6 points) 		/6
<p>Parent Functions and Transformations:</p> <ul style="list-style-type: none"> For <i>each</i> function, list the parent function and <i>describe</i> the transformations from the parent function to your transformed function. (6 points) Write the equation of each function (6 points) Find the domain and range for each function (6 points) 		/18
<p>Inc/Dec, Extrema, Symmetry, Limits, and Discontinuities:</p> <ul style="list-style-type: none"> For each function determine the open intervals of increasing, decreasing, and/or constant (6 points) Find <i>all</i> relative extrema for each function (6 points) Determine <i>both</i> algebraically and graphically if each function is even, odd, or neither. (12 points) Describe any discontinuities for each function. Use left and right hand limits to show any discontinuity. (8 points) 		/32
<p>Inverses and Compositions</p> <ul style="list-style-type: none"> Determine if each function is one-to-one. If it is not, restrict the domain to find an interval on which the function is one-to-one. (6 points) <i>Verify</i> algebraically that each inverse is correct (12 points) 		/18
<p>Function Comparison</p> <ul style="list-style-type: none"> Describe or create a real-world scenario that you could model with each function. (12 points) 		/12
<p>Presentation</p> <ul style="list-style-type: none"> <i>ALL</i> information on this rubric should be included in your final turn-in. Explain and teach a part of this rubric to your teacher based on your teacher's discretion. (10 points) Self-Evaluation and Partner Evaluation (4 points) 		/14
<p>Overall Comments:</p>		<p>TOTAL SCORE:</p> <p style="text-align: center;">/100</p>

Presentation Rubric

Criteria:	Comments:	Score:
Topic Selected		N/A
Presentation: <ul style="list-style-type: none">• Student was comfortable and understood the material without having to reference notes or clarification from teacher (2 points)• Clearly explained the concept accurately (4 points)• Both students took equal amounts of talking/sharing/answering questions (2 points)		/8
Submission: <ul style="list-style-type: none">• Information turned in was neat and organized clearly and effectively (2 points)		/2
Overall Comments:		TOTAL SCORE: /10