

| Planned Course: Honors Pre-Calculus | Course Number: M310H | Department: Math | |
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| Unit: Functions & Graphs (1) | Grade Level: 10-12 | | |
| Estimated Time: | Level/Track: Honors | Date Approved: August 26, 2019 | |
| PA Academic Standards | *Core Concepts (in question format) ● Skills/Knowledge | Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities) | Assessments (include types and topics) |

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| <p>PA Core Standards: CC.2.2.HS.C.2 Graph and analyze functions and use their properties to make connections between the different representations. CC.2.2.HS.D4 Understand the relationship between zeros and factors of polynomials to make generalizations about functions and their graphs. CC.2.2.HS.C.4 Interpret the effects transformations have on functions</p> | <p>▶What are the different function families and how do you recognize the characteristics common the each family?</p> <ul style="list-style-type: none"> ● Distinguish between a function and a relationship. ● Express functions implicitly and explicitly. ● Express equations using function notation. ● Identify zeros and y-intercepts graphically and algebraically. ● Identify the critical points of the graph of a function. ● State the intervals where a function is increasing, decreasing or constant-using a graphing calculator where necessary. ● Determine if the graph of a function is continuous. ● Identify type and | <p>▶Warm up exercise ▶Graphing Equations scavenger hunt ▶Text book exercises ▶WebAssign Activities ▶Teacher prepared video lessons/reteaching lessons</p> | <p>▶Quizzes prepared by teacher ▶Summative Unit test ▶Graded assignments ▶Formative Assessments</p> <ul style="list-style-type: none"> ● daily homework ● classwork ● questioning ● exit tickets |
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| | location of discontinuity. <ul style="list-style-type: none"> ● Describe the end behavior of a graph. ● Use limits at infinity to identify horizontal asymptotes. ● Find the average rate of change of nonlinear functions. | | | | |
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