| Name: <br> Woods |  |  | Grading Quarter:1 | Week Beginning: 8/1/23 |
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| School Year: 23-24 |  |  | Subject: Precalculus |  |
| $\begin{aligned} & 3 \\ & \text { ㅇ } \\ & \frac{1}{2} \\ & \stackrel{2}{2} \end{aligned}$ | Notes: | NO |  | Academic Standards: |
| $\begin{aligned} & \underset{\sim}{\wedge} \\ & \text { D } \\ & 0 \\ & \stackrel{0}{\otimes} \end{aligned}$ | Notes: | Obje <br> Less <br> What <br> iden <br> Take <br> the <br> sqrt | Library of Functions <br> features of a function and how can I fferent forms (ex: table, graph)? , domain, range, and properties for tions $-x, x^{\wedge} 2, x^{\wedge} 3$, abs $x, e^{\wedge} x, \ln x$, | Academic Standards: <br> A2.F-IF.B. 4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Include problem-solving opportunities utilizing real- world context. Key features include: intercepts, intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. Functions include linear, quadratic, exponential, polynomial, logarithmic, rational, sine, cosine, tangent, square root, cube root, and piecewise-defined functions. |


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| $\stackrel{\circ}{2}$ | Notes: | Objective: U1 L3: Composition of Functions <br> Lesson Overview: <br> Take notes: How to write a composite function as an inner and outer function <br> Different notations Independent practice on whiteboards | Academic Standards: <br> P.F-BF.A. 1 Write a function that describes a relationship between two quantities. c. Compose functions. For example, if $T(y)$ is the temperature in the atmosphere as a function of height, and $\mathrm{h}(\mathrm{t})$ is the height of a weather balloon as a function of time, then $T(h(t))$ is the temperature at the location of the weather balloon as a function of time. |


| $\begin{aligned} & \frac{\pi}{2} \\ & \frac{2}{2} \\ & \frac{2}{2} \end{aligned}$ | Notes: | Objective: Extra practice with Piecewise Functions <br> Lesson Overview: <br> Partner activity: matching piecewise functions to their graphs <br> With extra time: independently graph examples by hand, focus on domains other than $x>0$ or $x<0$. Include examples with three branches. | Academic Standards: <br> A2.F-IF.B. 4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Include problem-solving opportunities utilizing real- world context. Key features include: intercepts, intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. Functions include linear, quadratic, exponential, polynomial, logarithmic, rational, sine, cosine, tangent, square root, cube root, and piecewise-defined functions. |
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