Lesson Plan Template


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Sometimes we will be given a graph and have to figure out the equation of a line because we do not know the y-intercept. How can we do this?? Point-slope formula $\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)$
What are $x_{1}, y_{1}$, and $m ? ?$
$M$ is slope, and $x_{1}$, and $y_{1}$ come from a point we find.
First equation: Do we need to do this? No.
$y=-\frac{1}{2} x+4$, if $x<4$
Second equation: We need to use point slope form.
Slope is? Remember $\frac{\text { rise }}{\text { run }}$
Go down 6 and right 5 , this means that slope is $-\frac{6}{5}=\mathrm{m}$
Now what is a point? $(9,3) \rightarrow\left(\mathrm{x}_{1}, \mathrm{y}_{1}\right)$
Plug this into the equation: $y-3=-\frac{6}{5}(x-9)$
$y-3=-\frac{6}{5} x+10.8$
$y=-\frac{6}{5} x+13.8$
Now, we've found our second equation, we need the constraints.
$y=-\frac{6}{5} x+13.8$, if $x \geq 4$
Putting all of this together yields:

$$
f(x)\left(\begin{array}{ll}
-\frac{1}{2} x+4, & \text { if } x<4 \\
-\frac{6}{5} x+13.8, & \text { if } x \geq 4
\end{array}\right.
$$

## Any questions at this point??

## Lesson Plan Template

| $\mathbf{2 5}$ | Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life <br> experiences, reflective questions- probing or clarifying questions) <br> GRAB Calculators |
| :--- | :--- | :--- |
|  | Now, we are going to break into 6 groups based off of the playing cards the students received as they walked into the room. They will <br> be in groups of 3-4. They will be assigned to a station and each station will cover a different topic from the lesson. Groups will be <br> given approximately 4 minutes at each station. The students will get to work collaboratively on these problems and will be asked to <br> hand their assignment in at the end of class. This will be used as a formative assessment for the lesson on piecewise and step <br> functions. |
| $\mathbf{1 - 2}$ | Review (wrap up and transition to next activity): <br> We will review main topics from the day, namely how to find the function of a piecewise, step function. |
| Students will be asked to complete 13-18 on the homework assignment they were given on Wednesday. |  |

