Insights project: Inquiry model Student name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_\_

Project name : Absolute Value Inequalities

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| Basic |
| $$\left|x-3\right|\leq 4$$ | $$\left|x+3\right|>4$$ |
| $$x+3\leq 4 and x-3>-4 $$ | $$x+3\leq 4 or x-3>-4 $$ |
| Advanced |
| $4\left(2-x\right)<12$ and $4\left(2+x\right)<12$ | $$8-2\left|x-3\right|\leq 4$$ |

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| Super Expert |
| $$(2-y)(y-3)<0$$ |
| $$\left|z+1\right|<\left|2-z\right|$$Hint 1 : $\left| X \right|= \left\{\begin{array}{c}X if X\geq 0\\-X if X<0 \end{array}\right.$Hint 2: Consider different zones |