Review How is a reaction rate measured? <u>Aconcentration</u> = M Aconcentration = M What must occur for <u>auccessful</u> reaction? collide, enough energy, correct orientation What is the activation energy of a reaction? energy required for a van to occur What is an activated complex? - aka transition state - old bonds are breaking new bonds are forming - Very unstable

May 17-10:57 AM





May 17-11:00 AM

Answer the following with shift left or shift
right or no change & explain your answer:
$$CH_{4(g)} + 2O_{2(g)} < --- > CO_{(g)} + 2H_2O_{(g)} + heat$$
$$3mul$$
• Which way will the reaction shift if $\mathfrak{G}\mathfrak{B}$ added?
 \mathfrak{Shift} right, 1 products
• Which way if the temperature is raised?
 \mathfrak{Shift} left, 1 reactants
• Which way if water is removed?
 \mathfrak{Shift} right, 1 products
• Which way if the volume is increased?
 $\mathfrak{N}\mathfrak{I}\mathfrak{G}\mathfrak{B}$



May 17-11:01 AM

