## Reactions and Rates 2 Clicker Questions

Activity 2: Introduction to reaction kinetics

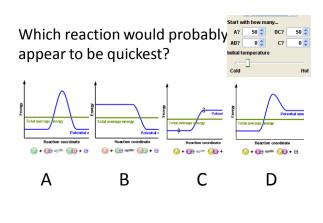
> Trish Loeblein PhET

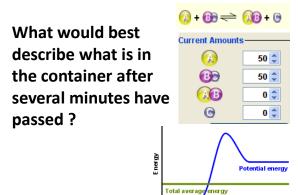
## Learning Goals

Students will be able to:

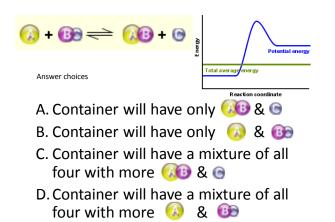
- Describe how the **reaction coordinate** can be used to predict whether a reaction will proceed including how the potential energy of the system changes.
- Describe what affects the potential energy of the particles and how that relates to the energy graph.
- Describe how the reaction coordinate can be used to predict whether a reaction will proceed slowly, quickly or not at all.
- Use the potential energy diagram to determine:

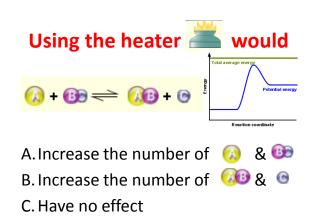
   The approximate activation energy for the forward and reverse reactions.
  - The sign difference in energy between reactants and products.
- Draw a potential energy diagram from the energies of reactants and products and activation energy.





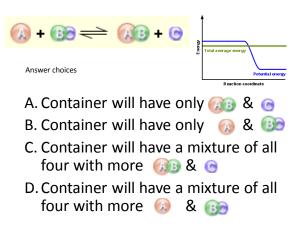
Reaction coordinate



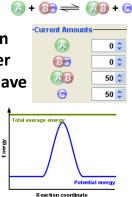


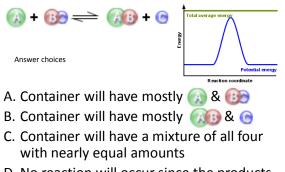
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		Current Amounts
		(3) 50 \$
		(B) 50 🗘
		(AB) 0 🗘
		<b>O O C</b>
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	Energy	Total average energy
		Potential energy
		R eaction coordinate



What would best describe what is in the container after several minutes have passed ?





D. No reaction will occur since the products and reactants have the same energy